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## MAY TREAT MORRISON

IN $\triangle I E N O R Y O F$
ALEXANDER F MORRISON

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THE GREIT WHITE NORTH


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# THE GREAT WHITE NORTH 

## THE STORY OF

POLAR EXPLORATION
froil the Earliest times To The DISCOVERY OF THE POLE

BY
HELEN S. WRIGITT

Ňm Diark<br>THE MACMHLLAN COMPANY<br>1910

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## PREFACE

The material for this book has been gathered from the rich storehouse of Arctic Literature. The chief labour of its composition lay in climination rather than construction. The great field I have endeavoured to present can hardly be brought with justice to the narrow bounds of a single cover, but I have conscientionsly endearoured to bring to the reader's mind an accurate record of brilliant deeds that go to make the history of the far Morth. and hare let the explorers themselves tell the story of how these deeds lave been accomplished.

Between the lines of their simple language describing stern facts or desperate realities, one reads the character and temperament of the adventurer; one gathers lessons of patience, self-sacrifice, and endurance unsurpassed in the history of mankind. and perlaps appreciates. for the first time. the splendid fibre of which he is made. Stripped of the conventions and luxuries of civilized life. he plumes into the great unknown to fight a relentless war against the greatest foes to his existence. - Cold. Starvation. and Death. Though he may fall by the wayside a victim to the Cause, or crawl home on hands and knees over the rough fastnesses of the frozen wilderness, famishing, - perhaps dying. - the record of his work lives on: the fundamental principles of great character do not perish. but stand through the centuries. a star of hope to the weary
traveller on his pilgrimage along the well-trodden pathWay of evergday life. and stirs the layman to a better endurance of the burdens: and perplexities of the common lot.

It is with pleasure I make grateful acknowlerlgment to the gentlemen who have aceorded me their graeions permission to quote from their works. to Commander Robert E. Peary, to Major-(imeral A. W. (ireely. and Sir Allen Y'oung. and to the following publi-lier's and others who. hy furninhing material or giving eonsent un $^{\prime}$ use selecter matter. or ly kind assistance in other ways. have mate my work possible: 'The American Puhbishing (impany, Hartoorl. Comn.. for selections from "()nr Last Lisplorers" ; I). Aphleton d (impany for selertions from Charles Lanmanis .. Farthes Somth "ant P'averos . New Lants within the Sretic (inele" : The Century Company for selections from (inneral firety a articlu







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nette" and Melville‘s "In the Lena Delta"; Dodd. Mead d Company for selections from the Duke of Abruzzi's "()n the Polar Star"; Benjamin B. Itampton, Esq., for permission to reproduce photographs of the Peary expedition of 1908 and Commander Peary's map, and Mr. ILampton and the Neu Fork 'Times for permission to quote Commander Peary's telegram amouncing his discovery of the Pole: the editor of the Illustrated London Neus for permission to reproduce the portraits of Sir Edward Belcher, Captain Nares, and Commander Markhann; Little, Brown \& Company for selections from General Crecely"s " I Iandbonk of I'olar Discoveries"; The London Sgency for ()rdnance Maps for selections from Sir Allen Voung"s " l'andora Voyages"; Longmans. (ireen \& Company for selections from Nansen's . First Crossing of (ireenland " and Sverdrup's "New Land"; the editor of Mo'lure s Naguzine for a selection from Mr. Baldwin's article on ${ }^{-}$The Baldwin-Ziegler Arctic Expedition," which appared in that magazine in 1901 1!002; Albert Opxti. Ex of IV . II. (iilder, Lientenant Schwatka, Colonel Brainard, ('aptain De Lang, and Lieutenant Lockwood; ('. Kegan I'anl if (ompany for a relection from Markhan"s "(ireat Frozen Set": (i. P'. P'utnam's soms for a selection from Mr. Alger's article on " Rooald Amundsen," which appeared in I'utnumis. Ionthly: the editor of the Amerian línerer of Renerus for a selection fiom Mr. Me (iratlis articho on $\cdot$ Pobar Explomation". Which appeared in that magazine: Sampson. Low, Marston d Company. London, for a seleetion from $\cdot$ (erman Iretie Expeditions"; ('harles seribneris soms for a selection from shbatkats ". search," Greelys "Three lears" Aretic serviee." ant

Schley"s "Rescue of (ireely"; ド. A. Stokes Company for permission to reproduce illustrations from Commander Peary"s work, "The North Pole," and for the loan of photographs; and to the same company for selections from Andrée's "Balloon Expedition" and Peary's "Northward over the Great Ice."

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A GRave ohd work, majestically swinging upon its axis, the mystery of its northern extremity locked closely within its breast, is suddenly electrified by the news that at last man, for centuries bafled in his heroie efforts, has reveated its hidden seeret, and that Ohd Cilory, symbol of the daring of the moderns', floats from the Pole itself.

What a thrill of interest passes orer the nations of the earth; universal exeitement; universal rejoieings. ("ablegram, Darcongram, carry the wonderful tidings under the seats or around the work in space.

The Pole at last! For ages the northern lights have beekened the adrenturous spirits to fathom the phemomena of the great monewn, have lured man into harhours fantastie with the frozen iee of conturies, have inspired him to erose the (ireenland ier sal) or make his konde trail through the "harrens" of North America or the tesolate "tumthe" of Siberia, his dauntless courage unquenched hy previous records of prisation, starvation, and death itsolf. Onc after another of intrepide explorers have heft their stories of thrilling atventure and record of their names or these of their bernefactors to mark their personal diseoveries.

What : history, what suffering, what sarerifiere componsated hy quest adherement, by heroiom, by glory - by the addi-


Whas wer the early mariners that atepired to peneetrate the


 a* ninth erotary some Irish monks, rarriod atway bey religions enthatia-in and an atrenthous shimit, serme to have visitod

 the berthererisited. and reported there wat no darknes at thermaner sol-tior. ()ther and Whalfstan, athirst for dis-
 atht in at probathility the former remment the Nowth (iape
 cam!ent now bo irlentificel.



















purpose of helping the sister colony: All of this early history is vague and unsatisfying, hut it shows the atlyenturous spirit of thowe early mariners. Within the next humethed years, that is to say hetween 13 ts and 1488 , at rare intervals there was some commmateation with the Greentand sottlements, but final! y it eeased altogether. Later the desife to find a short route to India inspired merehantman and matrins to erose the Aretie ( incle, and in the sixteenth and seremterenth conturisis expeditions of note, led be men of dauntlese pirit, find their record upon the pages of histor?

Born in Bristol, England, about Ifot, soloastian ( $a b$ oot: ambitious son of an atrenturous father. John (athot, becane zealous at an early age, through the sucereses of Cohumbus, io attempt a like achievement. Father and son projused to Hemry VII to sail west, and reach India hy a shorter route. The king. pleased with the ided of entering a new field of maritime diseovery, confided to the (abot- the exereution of this plan. d patent was granced March $5,14!6 .{ }^{\circ}$ It cmpowered them to soek out, subdue, and orcups, at the ir own chateres. any reqions which before hat beem unknown to atl ("hristians." They were empowered to take posesesion of such lands and set up the royal hamer. They wore anthorizat to return to the port of Bristol and no othere :and a fifth of the gains of the vorage wore tor be turacel ofer tor tho crown. The following your, l19T, Johm and zelnetian sathed from Bristal in the exorl ship Mathers.

By the reeorts of an old maty of this premot the kand firet







£10." No doubt, this modest sum was pairl for Newfoundland.

With the enthusiarm of the first voyagers stimulating them to freshe effort, the Cabots secured a second "patent" to John ('abot, dated February 3, 1498, giving him the command of six resicls, of not more than two hundred tons each, and to quote the exact worls of this document, "them convey and lede to the lande and isles of late found hy the said John in oure name and by oure commandment."

But before the small fleet was in rearliness, the father died, and to his son fell the enterprise. With five versels, sobsistian oot sail from Bristol in May, 1498 , and reaching the American coast ascended as high as $67^{\circ}$ north latitude, prokably pasing inte Hudson Bay: He determined to prese on in a desire to find an open channel to India. His mon beeane appalled at the danere that beset narigation in thow higher latitudes and mutimied, compelling lim to retrace his cour-s.

There is a vague rumour that he harl with him upon this rovage overe a hundred emigrante, whom he landed in thew hieh hatitnelse, and who all perished from cold, atthough the -raton wat midermmer. Howerer, he brought back to England thepe natives of the countries he had risited, and fon his exderesful dise oreries of more than righteren handred mike of our Vorth Amerisan codet, the king rewarded him herenferrine upen him the offiee of Cisand Pikot of Emeland.

The interest and exertions of serbatian ( ith ont did mot abate. for thic hamo, axtolled by contemporary writers for his








Three ships were fitted out, and Cabot drew up instruetions which are curions reading at this day. The expertition was under sir Hugh Willoughty and Richard ("hanceltor, and sated May 20, 1553, "for the seareh and discovery of northeru parts of the workd, to open a way and passage to our men, for travel to new and unknown kingdoms." ('abot instructs these men to treat all natives "with gentleness and courtesy, without any disctain, łaughing, or contempt." If they should he invited to dine with any lord or ruler, they should 90 armed and in a posture of defence. He telts them to beware of "persons armed with bows, who swim naked in various seas and harbours, desirous of the bodies of men which they covet for meat."

Of Sir Hugh Willoughby, first in command of the Bona stperanza, it is recorded that he was tatl and handsome and had proved a vahiant sokdier ; of Richard (hancerlor, that he was beloved and genial and espectally noted for "many good parts of wit."

Thus on that hright morning in early May, these two commanders with their loyal erew sated down the Thames amid the firing of gums and cheers of the crowds assembled upon the river hankis to wish them (iod-sipeed. It was mederstood between the eommanders that shoukt their veseets become separated, ther shoukd tre to meet at Wardhuys, "a good pert in linmark."

Ther procerded northward and pasied the northermmost (appe of Europe in Juty. It night during a dense foge and storm, the two shepse separated, the third and smallest kept with Wikloughtor, and the two hrave commanders and theid rrews never met again. Procerding northward some two humber mikes, reathing Nova Zambla, Willoughby wat fored by the ier to retmen to a bower latitude. In september, 1.s.3, he hambured in the mouth of the river dema, in Lap)tand.

He wrote in his journal at this time: "Thus remaining in this haven the puace of a weeke, seing the year farre epent, and also bery evill wother, - as frost, snowe, and haile, as though it had been the deepe of winter, wee thought it best to winter herere."
ha Jamary, according to the record of Willoughts's journat, all were living. In the epring Rusian sailors, venturing in than high latitudes, were surprised to see two ships frozen in the ice. The retentese grip) of the Aretie winter still hed them fart: the hand of eleath in ite most gruerome shape had reabed its havese Not a man survised. How brief the theath. yet the imagination shuddere at the agonies of the ir lato das the cotel intense, congeating: the impenetrable, metmeholy dark, an! drath, lasing its iey fingers upon the dheparing heart of cart in turn and the "hat Nan," surrenumed the the stark fome of his companions, weething aloner with inerol'alnde fate.






 , ! ! " "










eovery, he entered into the danee among the rest of the young and hasty company ; which being ended he and his frients departerl most gently, commending us to the governane of Ahmighty (iod."

Burrough skirted the northern coast of Lapland to the eastwarld, discovering the strat leading to the Karal wea, between Nova Kembla and Waigat. As a result of "the great and terrible ahmotance of ier that we saw with ota eyes," Burrough explored no farther, but sailing into the White fea wintered at Colomogro, retuming home the following spring.

As carty as 1500 a Portuguese, (aspar Cortereal by name, endeavoured to reach (athay by the Northwest Pastage and reached between 5$)^{\circ}$ and $60^{\circ}$ north latitudr. After making captive some fifty-seven matives, for the purpose of making them slaves, he returned to Lishon, ()etoher 18, 1501.

The following year he set sail again with two ships and is supposed to have reached Itudson strait, where the vesebes beeame separated. (asplar Cortereal and his corew were bever hoard of again.

The other ship returned to Lisbon with the umfortumate tidings, and a brother, Miguel, set sath from Lishom, in the spring of 1.50 , on a searching experlition. Upon reaching Hudson steat the shipsesearated to exphore the varione inlets and iskands of the locality. 'Two of the shipe rearberd the point of rendezvous, but the third, with Migurd ('ortereal on board, nerer appeared. Thus the two hrotheres shared a like fate.

I thirel brother. Vaseo, petitioned the king to erguip thother experelition to send in seareh of the missing men, hut this the king refused to do on the groumed that the loss of two was greater than he coukd afford to sustain. No tirlings wore exer reecived that could throw any light upen the sul fate of the bodel mariners.
(he of the most curious preductions hey geographere was a map publi-hed in 15.5s by one Niecole Zeno, a Venetian mohes. Whose ancestor of the same name hat left with notes and journats a record of certain northern jonmers made hy him toward the enfl of the fourteenth century. II had entered at pilot the service of a mariner named Zichmmi, frmanedmany years in his serviee, and, joined later hy a hoother called Antonio, sent some time in a country he named Fri-landa. Later both brothers found their way betck to Veniece. The soung Niecolo, diseovermg the muthated hettereand mathe of these brothers. proeeeded to prepare a narrative and clathorate map which was considered a most valuable addition to knowledge and contimed to be an athority for more than at erntury

The names are very eurions and confusing, but are supporal to be identified an follow: : -

Engromelant, Creemband: I-landa, Ieetand: Estland, Shothand I-kands: Fristand, Faroe I-kes: Mackłand, Nosa Sorotia: Wototiland. Newforndlant; Drogeo, eobet of North Americal I caria, coast of Kerry or Ireland.

The theree veratase of Frobsher madertakem between the
 and influential merchant naned Xichatl Lok, whose pa-com

 the Conturial amd Michorl. The laterer parterd combany in the

 |n+1|1- Fomed:an|

 II. Im: at lamling and exphoment the lam! to - onter extont.


him in expediting his other voyages. His primary aim of seeking for the Northwest Passage was all lint forgoten in the exeitement cansed by the posisible discovery of untold wealth.

Queen Elizabeth issued instructions for his gudence upon future voyades: "If yt be possible," so states the offiecial doenment, "you hall have some persons to winter in the straght, giving them instructions how they may observe the nature of the ayre and state of the countrie, and what time of the yeare the straght is most free from yee ; with who fon shall leave a sufficient preparation of victualls and weapons, and atso a pyonas, with a carpenter, and thymgs necessarie, so woll as may be."

The seeond journey, much better equipped than the first, brought home, bexide specimens of plants and stones, large quantition of the supposed gold ore. But though the dream of an El J orado was never redized, amd the ore was erentually proved worthlese, Frohisheres ereatest victory to sedence wate establishing the fact that there were two or more wide oneming leading to the westward between latitude $\left(00^{\circ}\right.$ and (6:) ${ }^{2}$ on the American coast. Of his personal character we note with interest that he was a hrave, skiffin leater of mene rongh in hearing. hnt a strict disciphinatrian, and carried therough his designs with the enthusiatin of a true explorer.

Arthar Pat and Charles dackman, commanding two verssals, ret out in 1.ss0 with instructions to sath through the strait leading between Novia Zemblatand Waigat, and from theneer eastward beyond the obti liver. They reathed



 ration hy shathos: amb ohliged to ger round ly the north.

only to be closed in hex the ioe. whech stopperl further progpros. The whe were widely sephatede and could only connmunicate with "atch other by the heating of drums or firing of mankets. Wirpher their ship) ato ophortunity ofiterel, thery finally got in chose eommuntation. (of the weather. they
 fog- too muxh aquinst our will-, if it hat pleated the Lord
 they wewe whiged to make fatet to icetherge, wheres. "abding the Lorl's pleature they continuen with patience." By
 vanced to permetrate farther. I'rt hatel disoovered at -trait between the mainland and $W_{\text {aideat }}$ lealinge into the Kiara
 wintered in at Jorweqian port: -ailing home in the -pring, his sthip with atl on leaar? wat lo-t at sad.

The cli-tingui-herl Brisi-h naval commander. Sir Itumpherey (illbert, near mbative of rir Wadter haterah and favourite of

 takt a rosate of dicooremy atml -rethe -uch part- of North
















Which news was greoted with much enthusiatm by the entire flect. 大o many of t!e rew having become ill, sir Hmmpherey found it arlvisabte forend home the surellowe with the siek on boatel. He then ambarked on the rifuirel, of ouly ton tomes, the smatest ship of the flert.
-ailing ont of the harbour of sit. John's on August 20, he reachert hy the efth latitude $4 t^{\circ}$ with fair weather. Two day: later at qute aroer prexeded hy a demee fog. The Gulden Hinde and 1 ) lighte were beeatern in antong the roeks and shonals. The frilden Minde signallesl to siemel on to sea, but the Delight elinl mot heed this, and was shortly afterward
 piecers. I low of the crew weaperd in a beat, hat the cap)tain ancl at hundred men went down with the ship. The

 spurned the ieleat athe - wowl heavely at his pose rather than
 ship. himwal ani all bamble left aboard were dooment to de-















 then they womlat -urely reath land by the moreow, and if there dhat not make it by the seremell days they mioht throw him onephomed. The aeventh day came at latat. and by noton they sighted land, as (larke laul prophered; in the afternown they kumbed. Thery wate thank- to (iond, and after claking their unkearable thiret with fresh water. the streng ones fonald some berrios growing wild with which to feed the party. In - watab dars they - fowly requined their -trengeth.

Latme they powed athog the eotat. hoping to reath the bay of Sewfomalland and mot some spani-h whaters whe freptrentent these waters. They sati-fied their hamerer by eating harios and prat. lamping at interval for the purgoses. Bothere longe they foll in with a spani-h -hip): the
 Landing near the Frenele frontior, they trateded theromg

 Gillne: : fithe fixe-hip- with wheh he hat started onty the (iolde" Hime and the siguibel -urvired. The impernetrahle
 dialeatmang to the erews amt alrealy the provi-iome on heand the siquimel wote ruming low: ()fforme and mon











was advised to remain aboard the Colden Ifinde, the siquirel boing so concumbered with heary artillery and other freight that she was not considered safe to fate the storms so tikely to oreur in mid-ocean at that season of the year. After consideration, sir Humphrey reptied, -
"I will not now dewert my little vesset and crew; after we have encountered so many perils and storms together."

Being supplied from the IFinde with some neecesary prorisions, Sir Humphrev refurned to the siguirel.

On the 9tin of september, in the latitude of England, the overhurdened little eraft of ten tons showed signs of foundrring. Sir Humphrey was seen by the Hime -itting in the -tern of bis vessel with a hook in his hand and was heard to call out.-
"('ourage, my tads! we are as near heaven on seat as on land!"

At midnight she sank with all on board. Thus terminated the first attempt to colonize the inhorpitahle sheres of Sewfoundlaml.

Following elowedy upon the disatrous bevage of sir Itmo phere (illhert eame the thee royage of Datis between the Fras- 1 Rns and 158s. He diseovered the strait that bears his- name. Opened a way to Baffin Bay and the Pofar sea and survered a considerable extent of the coast of Cireenland.

Between the your- 1.59 and 1.506. William Barentz marke thee jommers to the Aretic. losing his life in the disatere and privations of the lat morage. In this third moare, he made lis way to the sea betwern spitzhereen and Xova Zambla, where he writes. "Wre came to on great a heape of ice that we conld not sayte thromgh it." In Augurt. 1.sifs. they were suromuded be drifting ice which erm-hod aromul thern with -uch ataming forec a- to make "all the haire of mu heath to rise upright with foate." They made wepy (ffort to extrimate themedres from their perilow position.
bat on the 11 th of semtember ${ }^{\text {an we saw that we could not }}$
 hon-e ond - hip), as at other times we had done at also that it beysan to be winter, on toxk conno-dl together what we were







Whale - "atednes jor matedial wherewith to hathl their




















 'J'





## 7 <br> 

1
■I
which became almost unemdurable. Iee formed two inches thick in their berthe, and their misery may be imagined hatter than deseribed.
()n the ith of Deember, they managed to secure some coal from theire ship, and with it made a good fire which warmel them somewhat, though it nearly asplyaiated them. The cold beroming exer more intense and their supply of wool , liminishing, their sufferings are noted repeatedly in their journal.
"It was fould wrather again, with an easterly wind and extreame cold, ahmost not to bee endured, where upon wee lowk pittifully one upon the other, being in great feare, that if the extreanitio of the cold grew to bee more and more, wee should all dye there with cold ; for that what fire socerer wee made it woud not warme us: yeal, and our sake, which is so hat, wat frozen very hard, so that when we were every man to) hate hif part, we were forced to melt it in the fire, which wee shared mery reemed day ahout halfe a pint for a man. where with we were foreed to sustayne ourselves ; and at other times we drenke water, which algeed not well with the codl. and we nerded not to coole it with show or iee ; but Wio were fored to mett it ont of the stow."

The weye witen awod her the great volumes of sound, "iike the bureting asmeler of mountains and the dathing them to atoms." Shent the midele of Januarys they were forsed, bunlere geveat difficulties, to sereme more wood, and, making amother trip to the wesere, they found mech iee acernmulated within, and poturnol to their hut with a fox camght in the thip's cathe which provilewl them with frowh meat.
() Twellith Night the e mate alderoie effort to maks memers.
 and the emmer was peally intathen. Imaquine themester mack in Ifollaml. whe deamk to the there kines of (otown.

out of their seant store to celebrate this "great feast." But the intemse cold and storms that aon followed exeluded every other idea, and for days they wore shat in, trying to bring wameth to their frozen bodies with hot stones, but while sitting before the fire, their backs would be white with frost, white theres stockings would be burned before they eoukd feed heat to their feret.

Their stoek of provisions was becoming exhatheded, and atthough they had seren traces of beats and heard the foxes rumning orer their hedes, they eoukl not seecure any.
()n danuary 24, (ierard de Veer, Jateot) Keemeslink, and at third companion, upon making their way to the reatide toward the nerth, saw the sum alowe the horizon for the first times. Not having expeeted this event for fourtern datis later, Batrentz was doubtlul of their acematars. (on the 26the, one of their mumber who hatd long heen ill dime, and they dug a meave sexen fere in the show, "after that wo lated read eertame chapters and sung rome patmes, we all went out and buried the math."

As daylight incorased, they hoft their hat for shore perionds of exereres.

By May their impatienee to leare this derobate epot prompted them to make preparations for departore atol withont wating to ser if their ship would be natigathe when






 rent\% hisn-ili hacemace 1on ill for servier.




11! to soe it onew more, and the dying man's eyes rested with pleature upon its cheerless coast.
()n the twentioth day of June, Barentz was told that a man in the other boat named ('lacs Antriz was near death. He remarked he would not long survive his comrate. He was examiming at thr moment a chart of the coontries and olsjeets thes hated seen on their royage. Ine turned to Gerard de Veer, who had made this chart, and asked him for something to drink. Hardly had he swatlowed the liquid when he suddenly expired. saddened and disheartened, the remnant of this unfortumate experlition struggled on until September, when they reached the eoast of Lapland.

Ifter a vorage of eleren hundred and forty-three mites, these heroes of the norih left therir boats in the " Merehant's house" at ("oola an "a sion and token of their deliverance." A Dutch ship waried them to Itoktand, where they appeared hefore the cerrione erewrls of Amsterelam in the costume the hat worn in Nova Zemblat. Ther were honoured by their fonmtrymon and made to repeat their womlerful adrentures berore the ministers- of the Hagte.

Ton the early mape of the perion at the elose of the sixteenth
 athent hy the ('abots, who had reatehed as far as $60^{\circ}$ north latitude. Ferndione stadit. and outhone of the lande that he


 lactame (Hancedhe had otahli-hod valuahle trading artivi-
 of the (oumpeat hat opernel a way to spamish and Portu-

 10 diacoremy in the low Worthl te the English. exemplified hy



## CHAPTER II

 ant bsuming. shatarofi. - Tchit-chagof. - Arjou and Von Wratue Il - Phipps.

No (acmotmy hat prombaced a more daring or remowned matimer than Henry Hadston, or onte whore medanchody fate


「nang.
 intancy of Aratic aphlonation, landicappeal he the latk of atl
 fhate him in the fir-t mank. with the ormatest hativatore the














 1-
age of Sir John Wolstenhome, sir Dudley Digges, and other distinguitherl men, a vessel of fifty-five tons was fitted out and provisioned for six months.

Uneler the command of Hudson, the Discomery set sail April 17.1610 . Touching at Orkney and Faro islands, they sighted the woutheastern part of Iectand, Nay 11. Later they reached the Vestmamat Ises and saw Xount Hecla in erruption. (On June 1, Hudson writes, "This day, we saw (iseentand perfeetly over the iee : and this night the sun went down due north, and rose north-north-cast, so plying the fifth day we wero in $6.3^{\circ}$."

Taking their fourse northwest, they passed (ape Desolation. A school of whales was sighted at this juncture, and later iofhergs were encounteref. In Jume they saw Resolution Islame : woing to the sonth of this istand, they were carred by the warent northwest, until they struck shore ice, from which it was most difficult to extricate themerlves.

It this time a growing discontent athong the men first appeared on hoard ; some were for returning before the perils of the journey shend beeome greatere, others were for emtimuing. Hutwon showed them a ehart showing that they hat sated two handred leagues farther than any binglishomen lated -ailed before. The situation of the shipe, at times embowke. in iow, at other- pushing her way through kode of
 continued his intrieate mavigation, finally being redraded has
 bands. he ealled them Prinere Henry (:ape. King Jemes,

 Whike exphorine the eouth shome he diseovered an i-kaml,
 Wolstombohes. Hfo enterexl a hare, which, frome the date. ler cathon Mirharlmais Bay.

The seatom was adranding: alreaty the dats wore rery short and the nights long and cold. Readizing it wat time tos find shelter for the wintere her east about to diverover a sutather location. By the first of Xovember he hat the veser hated agroumd, and ten dats later it was frozen ins. The stock of provisions wat rery low, hut the mens supplemented it beg kitling or trapuing anything that wats serviceahtre for ford, and after game left then in the spring, they lised on such
 ato mosis, frogs, ath! hats.

With the hreaking ap of the ion in the speringe peremations were made for meturning homes.

 form erpally among his men. They wore a famizhed, dosparing crew, mathened with suffering. The ory for breat Wat in their vitals, and there was no hereat. IImerer and misery made their berams reet, rohberf them of their watlinesin, and redhend them to wild amimals at bily. It took bat
 incita them to mutimy.

On June 21, "phe ship's emmpans, both siok and woll,















1edf him he wat lound. Two of the devoted party, who wore siek, 10 dil the mutineers theil knavery would be punishere 'They pead no attention; the shatlon) was hauled up to the -ide of the vered, and the siek and lane were made to get into it. The carpenter, whom they had agreed to retain in the reserb, asked them if they would not be hanged when thery reacheal Fingtank, and botdly refused to remain with them, prefering to share the fate of Ifutson and the siek mon."

Thereme then set satil, and the boat in which were Hudson and his companions was never seen again. After many hardshipe and viefsitudes and much lose of life through the onskated of the matives, where the landed to seecure foorl, a remnant of the unfortimate (rew found their way past the ('apee of Cobl's Merebes and thence to C'ape Desotation in
 duced to the lat extremities hy hanger, one-half a fow fried in tathow per matn being their only suntranee each twentrfotur homers.
 north of leremml, where they kamed, and later mate their Way to I Pymonth.

Foblowing the example of Ituken, and with the purpese of further dixeovery, Baffin ort sait in 1616 and explored the vant bay ainh humberl mikes kome and threre hundred mites
 hnoneht home whervations and reports of latitude and
 Su:tro, hat hate since heren verified and aceredited to him.

 Whase hife was ons kone reeord of heroir achievement. I Ie hat :arn mathy perts of the world white serving umber Poter ile (iveat. he whem he was eiven the exmmis-ion of here

wion- vorage he hanl explored the straite which hear his nome. Theo strats: had been naviquted nearly a century hefore he Detheff, one of the early lawian explorere whe
 whiget wat to remen! to the mouth of the Amatly Piser, and there form at traters settement. Desheff and his (ompanion- were the fins navigators to sail trom the Aretic

 S.iat are not mintme.




 hast, hand own the lamb af fer dass previouly amd. having













 1:



and :now: The unfortunate erew wrere in a pitiahle condition from the miserathe disease that lad hold of them. The steersman had to be supported at the wheel by two other sick ment that he might continue at his post of duty. Finally he was disablecl, and men hardly more fit took his place one hy one. Almost daily some one died, and the ship, no longer with enongh hands to man her, was at the merey of the elements. The nights became long and dark, the water supply wats rumning low, and ecreain destrotetion and death awaited the remmant of human beings left on board, unless a harbour of refuge coukd be found.

It last one morning land was sightef. The approach was (liffecult, the ship so crippled as to be almost ummanageable, and the rocks threatened instant dostruction. Darkness eame on before they could make a landing. In their attempt to anchor, two cables parted, and the anchor's were lost; they had no third anchor in rearliness.

At thi- juncture it seemed as if the hand of Providence intervened, for a hage wave lifterd them areose a sund har, hetween at narrow opening of high rocke, and they found themsettere in calm water, where the next day they marde a suecesinul landing. The land poroced at barem and treekess iskand, fortmately wall smpherd with emane hut there was no hait or shelter of any kind, showing it to be uninhabited. surb of the crew as were able mate shettere under peropertimg samblhanks, using satherloth to keep out the wind and cold, and there they hrousht their siek and dyine comaratos. Bat the shock to some of the siekest proved fatal, and, hefore
 dewored pertions of the hatheds and fore.


 he lay dring pating the weary hours in the vageries of
delirimm. hy coserine his shrunken form with samel, making


 dividing North Amerieat ant S-ia, through whimh he -atex ith the glory of hi- prime.




 remiters.

By March, 17 +2, the forty-five -urvione thirter of their
 bow to make thesir (exape when the ies - - emblat permit. Their hoat wat a fotal wrorli, and their moly hoper lat in mot-






Katly in May the ship) wat -tartent. It wat ime y fert












ment conferred the lowest rank of nobility upon sitwa stara-


The Pusdians have been untiring in their endeavour to dis-
 ( 'ape ( 'helag-koi. In 1760 , schalaroff attempted to fored the patade that hat proved so disastrous to Behring ; in pite of mutiny and hardship, he renewed his attempt theree times, that wat finatly wrecked about serenty milos cast of (ape ('hresoskoi, where he and his crew perisbed miserably from -tarration.

Ammiral Tenitschagof endearoured to foree a passage round

 tain Billing- in bisi mak two attempt-, both of whel were metuererful.

DEmy yours later, 1520 to 1 S23, Lientenant Injou and Admiral Von Wrangell made a seriso of remarkable stedge jonmer- -tarting from the mouth of the Kolsmat River. On


 saveal times tha party cane near h-ing their lives by breakine through the ice. After feateling this high lati-
 Wranced writes:-

- Votwith-tamding thi- sure token of the impocsibility of procersling much further. We comtinued to go due noth for athut nine vor-t- when we arrived at the edere of an immense herak in the iore extendine est-t and wrot forther thate the





cont. But to us a melancholy: -pectacke. Fragments of ice of enormone size floated on the surfare of the agitated ocean, and were thewn he the wate with awful violenee aquinet the wite of the iee-fied on the furthere side of the ehather before us. The colli-ions were - ot tremembou- that harge masers were arer instant hroken atwer and it was mident that the pertion of ier wheh still divited ther ehamel from the open orean woukd some be completely destensed. Had

 footing upon orar arrival. Eirn on our silf. froh hanso of Water wore contimually forming, ant wotembing in exery direction in the fied of ier herhind w-. With at pantul ferelince of the impor-ihility of overeoming the ohaterle whels
 the leme which we ret hedereat to exi-t."
()f the diffixultitw that whfronted them upon their metmen, Artairal Vinn Wrangedl write:-
















conflict of the elements，expeecting every moment to be wat－ lowed up．Wie had becon three long hours in this position， aud still the mass of iec beneath us hedd together，when sud－ denly it was calught bey the storm，and hurled against a large fied of ice．The erash was terrifie，and the mass beneatle us was shatered into fragments．It that dreadful moment， when cesempe secmed imporible，the impulse of self－preserva－ tion implanted in crere living being saved us．Instinctively we ath aprange at once on the sledges，and urged the dogs to their full sperd．They flew acros the sidding fragnents to the fied on which we had been stranded，and safely reacherl a part of it of firmer character，on which were sereral hummorks，and where the dogs immediately ceased rumning， conscions，apparently，that the danger was patt．We were sated：we jovfully embraced rath other，and united in thanks to（iond for our preservation from such imminent peril．＂

The primary object of the Plipp）s expectition sent out ley the Rosal soceicty of lingland，under the sulieitation of the ghemment and ail serentifie men of the time，was to reach the Magnetic Pole and solve，if po－aible，the caluses of the valiation of the eompare and othere erientifie problems．



 tion wat romag Xeloon，kater the hero of Trafatgar．In anere dotn of Xhaton－lowing his courage and daring on this trip is told at frollows：－
－＂＇hlitr out in small heato one of the offerens hat womented a walra－．．．The wounded anmal dived inmodiately： and browht ug）at monber of ite eompanions：and ther juinet in an attark on the lowat．The？wrotwe an ore troms



 soll it at mas daring mathore.

Ther matortunate situation of his vestele foreerl Plapps to

 bherime strait to baffin Bay, the ill-fatad ('ook sailod in

 on ther coant ont haia.




 tainty that he rearemethe sexath. Thar hand experditions

 - m many yats.



## CHADTER III

larly ninetenth entury: Rosend Parry, May 3, 1s心. Ohjert

 mat Melvilh Bay. - The dimovery to Row of the famon- ( rim-


 Guitzhergen. - Domethen and Tornt in Maquatena Bay. Jume 足

 Domethern disabled. - Hasty return w Songham!.






 to the wexntioth and riwhiath patallel.

The British Aemiralty in empunction with the (inmerit of







 -11atir mat 10 thin Parifice.

The four ship－were the best requippeal for Aretie reacareh that hat wer heren ant out imon Englaml．and the conmand－ er－were in－tructed to collect all po－ible information that

 exi－tine in hioh nombern hatitudes．
 company in Prawa foumb，shefland，and sailent for thatio
 the command of Rowe and Parrs．reathed Wequt connd on the 1－th of Jume：where the wem thetainel hes the iow in
 oharation from the them of Weat I－hank，which they
日゙ッパ

13，warging and tewing ther man－how progra－．naments
 fimally making the opm water，itiwh montain－wor do

 to two thon－an！Imat．













more appropriate. It did not belong even to Nash to comhine in his own persom, like Jack, the diseordant qualifications of sambiln, intorpreter, draughtsman, and master of ceremomice to a hall, with those of an active fisher of seals and a hounter of white hears. A flaughter of the Danish resident, the en Wkimo woman,) about cighteen yars of age, and ley for the beat lowing of the half-cate group, was the obsfeet of Jack": particular attentions: which being oberrved be one of our offiecre, he gave him at tady's shawl, ornamented with spanges, at en offering for her aereptanes. Ife presentel it in a mos moperet fiul and not ungraceful manner to the damed, who thathfully took a pentere ringe from her finger and gave it to him in return, rewarting him, at the same time, with an elorquent smile, whiche couble leate ne doult on our Eskimo's mine that he haul made an impresion on her heart."

Near (ape Dudter Digere a murion comblition of the ice was notell by (aptain luse at follows:-
"Wre hate diseovered that the show on the fare of the diffe preante an appearance both novel and interesting,
 Quare it a de(p) erimeon color. Thic -mow wat penctrated in many phace th a denth of ten or twate ferat lig the coloring mattre.

 :31-t," le writes. "we diewsered. Fon the first time, that the

 Wa* exaterl on heard he the apperemence of the strait. The


 war ane at the bertom of the inlet hy the ofterest of the watch,
 complese wan ohserurem! hy the fog. The lame which I then satw was a high ritge of momatins extemting direetly arross the bettom of the inke. This cham appeared extremety high in the erentre. Atthoweh at passigge in this direction appeared hopowes. I detemmine to exphore it completers. I therefore continued ath sail. AIr. Beverly, the surgeon, who was the most sangume. went up) to the erows nose and at twe tre reperted to me that before it became thick he had ween the land acoses the bays except for a very ther space. It three, I went on deck: it completely eheared for tem minuters. when I distimetly saw hand aremod the bettom of the haty, forming a chatin of mountains comeneeted with these which extended atong the nowth amb south side. This lame appeemed to be at the distame of eight leaguse and Mr. Lewis, the matere, and J:mes Hatig, kending man, buing somt for, they took its hearinge, which were insertent in the loge. It this moment I :lxo satw a comtimuty of ion at the distance of sorem mikes, extenting from one sta of the bay to the other. betweren the
 Wampentw, and that to the sonth, which wat named after \"is-






 to mamen in mentura latitakes.








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1
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through Baffin Bay, thereby proving the claims of that famous okd mariner, and had heen the first to meet the Eskimos of the far north, whe were to render such valuable assistance to future explorers.

The progress of the Dorothea and the Trent under the respective commands of ("aptain David Buchan and Lien-tenant-( ommander John Franklin (later Sir John Franklin) was delayed by fog and storm until they sighted ('herie Iskand, latitude $7 t^{\circ} 333^{\prime}$ N., and longitade $17^{\circ} 40^{\prime} \mathrm{E}$., famous for its herds of watruses from which the Museovy Company had derived much profit hy sending ships to the istand for oil, the crew capturing as many ats a thousand animats in the course of six or severn hours.

The ships now encountered small floes and huge masses of ice, which augmented the difficulties of progrests, and this Lieutenant Beechey, the elever artist and interesting narrator of the royage, deseribes as follows:-
"There was, besides, on the oceasion an additional motive for remaining up; rery few of whad ever seen the sum at mishight, and this night happening to be particularly distorted by refraction, and sweeping majestically along the northern horizon, it was the object of imposing grandeur, wheh rivected to the deek some of our erew, who would perhaps have beherd with indifference the kese imposing effect of the iechergs: or it might have been a combination of both these phenemenal for it camot be denied that the novelty oc(asioned by the floating manses was materially heightened hy the singular efteet produced he the very tow altitude at which the sum eat his ferer heams over the icy surface of the seat
"The rats were too obligue to illuminate more than the incerablities of the flow, and fatling thus partially on the gretespue shapes, either reatly assumed by the ioe or distorted hy the uncequal refraction of the atmosphere, so betrayed the imagination that it required no great excrtion of
fanns to trace in variou- directions arehitectural edifiecs. grottor. and cavo hewe and there elittering as if with pre-
 mittel. that. in directing the ronte of the reasel from atoft. We for :t while deviated from our natiotah phra*e



 ther two hape were parted in a sotere gete. Ther -now fell






















 $11,110=$
"The first was oceasioned by the dizcharge of a musket at abhat hati a mikes distanere from the glacier. Immediately ather the report of the grun, a moise resembting thunder was heated in the direction of the ieeberg (olacier) and in a few seromble more an immense piece broke away, and fell hearllong into the sed. The erew of the latunch, supposing themsebere beeond the reach of its influence, quietly looked upon the seme, whem presently a sea arose and rolled toward the -hore with such rapuidity, that the erew had not time to take any precautions, and the boat was in conseguenee wathed woon the heach, and completely filled by the suceerding wave. Is soon the their asonishment had subsided, they examined the boat, and found her so badly store that it hecame neecerity to repair her in order to return to the ship. They had ake the curiosity to mersure the distanee the boat had been (arriod by the wave, and fomed it to be ninetr-sid feet."

Deseribinge a serend aralanche he writes:-
"This orecurred on a remarkahly fine dax. when the rquictnese of the bey was firet intervereted he the noise of the falline body: Lieutemant Franklin and myoolf had approachod once of these stopernelous wath of ices, and were enceatoring theareh into the inmermost reeres of at deep catern that was Hear the forst of the olaciore when wo heard a repert as if of
 We peresived an immone piece of the front of the berge stiching down from the height of two handred fore at least into
 paniod hy a lowd, erinding noise and followed by a quantity

 of the whatior."
for wrat was the distumbence of the wator-he this ereat


they approwehed it and found it to be mearly a quarter of a mile in circumference. "Knowing its -pecefte gravity ant making fair allowanco for it- inequalitios, its wroght Was commuted at 42.8600 toms."

The shipe left Magelalena Bays. June 7 . and made their - fow way through brath iew which beceme thicker and more innpenetrable until a fortunate brepze disperesel it. Sailing in a
 reported others bere he the ies in that direction. ('aptain
 més ('lowen ( lifif, an isolated rock, marking the northwetern benmatary of spitzhorem. Near Real Baty they were otopped he the iefe and the chamed hy which the vesede had enterend

 tain Phippr. and all the (arly vorater- to thin quater had heren stopmed. ()f their perilens -ituations. Lientemant Beerfory witas:-
 to mur diffionltios. we fomm the watar on -hallow that ther rock-were phamly di-movered umber the hottom- of the -hapes.







 $\therefore$ -




amt tracking, ofe, he attaincel a latituele of $80^{\circ} 3 \mathrm{t}^{\prime}$ N., but, thengh attached to flowe, he found himself being earried to the southward he the emrent. On the linth and l6th of July, both shipes sufferel eomsiderable iere preserure. The nime days following, the arew worked might and day to free the ships and got into (1) (en water.

Having given the ice a fair trial and proved it unnavigable, Buchan tumed his attention toward the eastern eobst of Greentand, intending, if it proved impenetrable there, to round the south eape of Fintzbergen and attempt to make an adranere betwern that island and Nova Zembla. A terrifice gate struck them the 30 th of July, wheh brought down the ies upon them and threatened their immediate dostruction. ()f this encomanter Lieutemant Beechey gives a most vivid deromption:-
"In order to atore the effere of this as much as posible, a cathle wits out up inte thirty feret lengthes and there with phatow of iron form fort spuare, which had beren supplient to Hs as fomders, together with some watron hifles, were homg
 at the same time. were seernerd with adtitional ropers. and the hatehes were battered and nailed down. By the time these preathtions had heren taken, our apperoad to the hreakers only left us the alternative of either permitting the
 the it ehance or of mateatoring to forer fairly into it hey puttine Bufore the wind. It lemeth, the hopelese state of a
 apparme to all, and we meotrod to attempt the hatter expelimat.






 it hat- - 4 in motion with at volenee erguat to it- own its effect is paroligionaly increarod. It onf monent it hur-t. upon 1how icy fragments amd harico them mathy feet honeath ite wate and the next, as the brosenery of the do-

 rocking and hatoring in it- bod, grind- agum-t and ronternts with it- npponelit. wntil ome is (ithere -plit with the -hock or
 confined to any partiouk foot: it i- gome on at far at the

 hink in the sky ahores, where the umataral charnes of at


















[^0]footing：the masts bent with the impertus，and the eracking timbers from helow lespoke a pressure which was caleulated to atwaken our serionts apprehensions．The vessel staggered under the shock，and for a moment seemed to recoil ；but the next wate，curting up）under her counter，drove her about her own length within the margin of the ice，where the gate one roll，and was immediately thrown broadside to the wind hey the suceecling wave，which beat furiously against her stern，and brought her lee side in contact with the main hotys，leaving her weather side exposed at the same time to a piece of lee about twice her own dimensions．This unfortunate ofeuremee prevented the resel penetrating suf－ fiedently far bisto the ice to eseape the effect of the gale，and plated her in a situation where she was assailed on all sides by battering－rams，if I may use the expresion，every one of Which contested the small spater which she oefopied，and dealt such unrefenting blows，that there appeared to be scarcoly any posibility of saving her from foundering． Literally tosed from piere to piecer，we had nothing left but pationtly abhide the iswer for we could searecely keep our
 meotion，indeed，was so great．that the shipis bell，which，in the heavios gate of wint．hat neror struck of iterelf，now tolled as contimatlys．that it wats oretered to be muffed．for the purpere of exaphing the umpleasant assoriation it wat ratmbated to producre．
＂In antiopation of the worst．We determined to attempt
 into here subh provisions aml stores as coukd at the moment be got at．serions donhts wore reasomahly chtertained of the thent heing able to live amone the eonfused mase he Whach wo were oncomplazel ：yot as this appeated to be ond maty mefoge we chang to it with all the eagernese of at last resonere．

It was only too evident that she conld nont long survie the eritical porition in which she wat placed and that the only -adration lay in penetrating still farther into the iee To this embl, more sail wat enread, and, with the added power, she righted herorlf. shlit a shall field of iece. fourteren feet in
 pioces. On the gate abating. both ships reached the equen sexi, hat were greatly disabled, the Domothers in at founderinge (onndition. In this uredess state they made for Fair Haven. in spitzhergen, where ther underwent nexes-ary repairs. Limptenant Franklin urgently reepuested to her allowed tos retann to the interesting grest whish ther had heen ohliged to ahandon. hat this being imporible owing to the thattered (omblition of the -hips. the experdition put to ara the mol of Aheret and reached Engeland ahout the midedle of ()ctobere. 1ヶ1)。

## CHAPTER IV

1819-1827: Parry's first royage. - Object, to survey Lancaster sound and prove the non-existence of (rocker Mountains. Discovery of new lands. - Parry Islands. - Attains longitude $110^{\circ}$ W., therehy wiming the bounty of five thousand pounds offered by Parliament. - Wintere near Melville Mand. - Second vosace. - Ships Ifeld ame Firty. - Examines Duke of Jork Bay and Frozen Atrait of \iddeton. - Winters off laoon Inlet.Sorlge journers. - Objeet, to make Northwert Passinge vion Prince Regent Inket. - Rached Port Bowen. - Ten monthe' imprisomment. - Destruction of the Fury. - Hasty return to England. Fourth royage. - Purpose to reath the Polv fin spitzbergen with sledge boats orer ice. - Incle as transport, - Parry's farthest, $22^{\circ} 45^{\prime}$ N., reached June 23, $1 \times 27$.

The primeipal object of Lieutenant W. E. Parry's first voyage under the direction of the British d dmiralty was to pursue the survey of Lancaster found, so abruptly discontinued by (aptain Ross the previons year, and deride the prohahility of a northwest pas-age in that direction, thus settling the much-disputer puestion of the existencer of the "('rocker Xountains." which Parre, who had aceompanied lases dredared from the first to have heom an ocular itheson. Shouk Latneaster sound not prove marigable, smith and Jones sounde were to be explored.

 Thames Maty 11, 1sl! , phey reathed Datis statit the hat week in Junce atm hepe experionced a geonl deal of ammotame from ice, through whele they made a -low and diffocult
pat-age hy hearing and warping. readhing P(x-m-am Bay at month later. Ifmen lanling the mern were not a little -urprivel to we their own fontprint of the previnus sear: a fox
 alla) al hes. Thaft- and eromal phants erew in cossiderable ahmatare wherever there wat moisture.



 moth of Leromal Lanml that Pame detemment to -hate his



 trated one homben and twenty mifo and havine siven the

 Gkirtine the moth -home of bamen strait. the later parach





Xasizeton mow theme extmondy diflicult, owing to







I

Every effort wath mow made to prish forward in the lupe of reaching longitude $1: 3)^{\circ} \mathrm{W}$, theredes serumg the areond esward hedd out bey the government. They had progresed that a short distance whem, to their great disappointment, farther adrance became imposibje by reason of an impenetrabile barrier of ice.

The approads of winter decided Lieutemant Parrs to seek the whelter near Melville Island and there prepare for the long winter monthe.

To the group of isfands in the vicinity of which he han taken refuge, he gate the name of (ieorgian lwamk, in honolir of His Majeery, King (ieorge III, but later the name was changed to Parry Islands.

Knowing well that good spirite meant goorl health in the tedions winter monthe, Lieutenant Parry entahlished a erhool for his men, as well as the diversion of a newspaper, and the whipes erew actell serveral blays, which were most menusiasti-

 itwif anmeng the crew, and -uch antiventhotios an lemon juive,

 Wat redievent hew whe and the wearing of black erape before the evore.

L- the -pming approwethel, the Fip) were made reaty for
 remained impernctral性。
 1. lami by Limatenan Pary and whow warsine prowions for there weeke. Thore frumb such part- of time gromed at wore fre from show eovered with dwat willow. antel, ami
 were killed. Ipom his meturn to the -hip, the mithe of

after sorred, wheh they procoured in large cuantities and wataly enionad. On the weotern side of the iskand at Burh-
 anter ath! most hathitable -pot- we hatl yet aeen in the Aretire regions, the segration being more ahmotant ant forwat than in any other place and the sithation sheltered and fatorathle for watne.

Thongh chatmels and powh were everywhere forming, it Wat mot matil the second of Aughet that the great mate of ice
 water, bat after at Ahort adrance, inn spite of exery effort, teres
 batrier of iee from making the in way wortwark. Thereseremed no alternative hat a retorn hementurd, and after taking



I warm welconce athated the daring navipators. who hat


 and had wintered -ucero-fully in the Aretie. bringing back his arow in wexd (andition.
 Arete maphation thromehonat Enetant dexident the Briti-h


 pat matir the command of ('aptain Patry and Lioultonant






ame hy the $2 d$ of July were at the mouth of Hudson strate, having parted with the Nautilus the previous day Foobergs in formidable numbers had already been coneountered, and the desolate condition of the shores, the naked rocks, the show-rovered valleys, and the thick fogs encountered were anything but encouraging.

Progres was now made through very heary floes, and between strong eurrents, eddies, and ieronergs they were menated ley sertons danger for more than ten days. While embayed in the ice, they sighted near Resolution lskand three strange ships also fast in the iee. These they later managed to join, and fomed them to be Hudion Bay Company's traders, the Prince of W'ales, the Eddystone, and the Lori TH ellingten, chartered to convey one humdred and sixty emigrants, who intended settling on Lord selkirk's estate at the Red River. ()f these peophe Lieutenant Lẹon writes an interesting aceomen : -
"While nearing these versels, we observed the setthers waltang on leck for athove two hours, the men in okl-fashioned gray jackets, and the women weating long-ated mob (ap) he her those beed hy Swiss peasants. So we were surrommed by iece, and the themometer was at the frecozing point. it may bo smposed that this hall al vero freseo afforded 16: muth ammecment."
some days later they foll in with some Ekimos, who eame out to the ships, the men in their karake. the women in their serecial "oomiaks." The mativer boarded the ships and, says (aptain Lyon:-
'It is quite ont of my power to deseribe the -honts. reths, athel latughter of the satates, or the conflesion which existed for two or thres hours. The fermates woreat firs very shy: athe mwilling to come on the ice, hat hatered exery-

 the mem."
"The -tancer wro - well phaterl in our society," con-




 fonme : mest drdighfial - of dancer- of whom -ome of the woment Kent prettre gext tinne. Their only figure combinted in orampinte and funphing with ath their might. (hur mun-





 hi- fate ant dancel romat him wherever he went. The ex-








 1 ...








by teaching a karge party of women to bow, courtesy, wake hatuk, tum their toxe out, and perform other polita aceomphishnemto: inc whole party, matater and pupilis. presenting the strictest gratrity.
"Tow:urd mirhight all our men, exeopt the woateh on deck, turned into their berls, and the fatigued and hungry Ekimos returned to their boents to take their supperr, which eonsintad of hunp) of raw fle ho, and blubber of seals, hirds, contrais, ate. ; licking their fingers with great zest, and with knives or fingers scraping the hoort and greate which ran down their chins inte their months."

Parry makle an examination of Duke of Vork Bay and the
 dars kater the Merle and Foury got well into Repulse Bay, and at careful examination of the shores wat mate her parties of offorestand men in boats. By the 3let of Iugust thery rearhed ( ione Bat, which was packed with ire Eneountering thick foge northerly winkls, and heary ice-floces, they found that in -phite of every exemion they were being carried back to the - pot in Fox Channel from which they had started some days belone IFowerer, thes later marle some advanees and athmomer maxir Lyom lnded.


 winter drater- for the -hips. The authestet extremity of an
 and the nownotonon- winter closel in ugen them shomply after.

The watal theatracal diversions wore provited tor ther







 tam of theirs stotw i- interesting: -

- Wine iroze in the buttles. Pert wats congeated into thin pink laminat, whith lay loonely and ofompied the whele hemethe of the hottle. White wine, on the contrary, froze into a solid ant profectly tran-parent masor, resmbling anter."

Wh the 1.)th of Xarelle a party under ('aptain Lyon started out to explowe the tand near the ehipe : they were provisioned for there or fond dars. hat their experience was most unforthater. Thu mold wa- intenes, their tent- at night afforeling little poteetion atamst the frightmaty low tranerature.

 fintory Tha following moming ther format themetres

 Wta., were comphaty homiod. To remain where they wore




" Nos hamming whore fo gos. we wandered among homy











Their generat custom of warning each other on ohserving a diseoloration of the skin. Mr. Palmer emploted the people in huikling a sonow wall, ostensibly : ts a shelter from the wind, but in fact to give them exocere when standing still must hate proved fatal to men in our vircumstancos. My attention wras exclusively directed to sergeant speckinan, who, hatimg heen repeatedly wamed that his mose was frozen, hat paid no attention to it, owing to the state of stupefaction into Whith he lexd fallere. The frost hite now extended ofor one side of his fate, wheh wat frozen as hated as a mask; the ero-
 to expose thateoth amd gums. My hamels bemg still warm, I had happiness in restoring circulation, after which I weod all my endeavor~to keep the poor fellow in motion ; but he complained sadly of giddlinese and dimmest of sight, and |ras so
 Was so alammen that I expeeted exery moment le would lice (own never 10 rise again.
" ()ure prospect now hecame exery moment more gloomys. and it wathut too probable that four of our parte would be umable (t) survire :mother hour. Mr. Pahmer, homoror. embeatored, as wedl an misulf, to cheore the perone up), lat it was a faint attompt, as wre hat not aingle lope to give them. Exery

 mon from rammen to the difforent ahioce which attratedel them, and romsequently lowing themestres in the dritt. In
 limsilf. he -uddenly piteled on a new beaton track, aand at


 to one infinito foy wr fomed that the path leal to the ship)."

It wite mot matil the 2al of July that the ships, free fome


 watd. They entertatmel hash horx- of making the looked-ion pa-atese to the Polar sca but mafortmately a formatahke line of impernetrahle ion hamed the way amb tetemmen Parry to make an expertition ahonge the frozen surfure of the -trait itn whinh they fomm! themedres.
 latoman- and fatiguing adrante over the wheron hammock-





















 and atthontul (:anam l'ars

ring to the Fory all provisions that could be epared，and semel－ ing the Ileclu home with the sick，this project was abandoneel， and on the seth of August they turned their faces hometrard．

They touched at Winter Island and fomed radishos，mus－ tard，eres．and onions that they had planted the previous year still ahise．The ships were drifted about in a stormy seat at the ：nerer of ior－floes and adverse eurrente．Not until September 2：3 diel they qet free into the Itlantic ；and，the 10th of（October＇，182．3，reached Lerwick，scotlant．

This expedition having proved the impracticability of a pas－age through the western extremity of $\lambda$ Intrible T－kand or by way of Fury and Heclat＊trait，it was hoped that a parsage mioht be aceomplished through Prince Rement Inket．For thi－purposes．（＇ap）tain Parry was again fitted ont in the IIfela and in the accidental absence of（aptain Leron，Lisutenant Ifoppere wat put in command of the Fury．The raperlition sailed from Northfleet on the 19th of May，182t，and enteren Davis strat about the midelle of June．Iancester comur was not reacled until soptember 10，and Port Bowen was made their winter quarters．．ffer ten monthe imprison－ ment，the hipe were once more free，but，later owretaken by
 Them and theratemed immertiate derametion．The fory was



 hi－！liatheminment．Parry dumg to the inked that a northwert

wote：－




at other minforafle viremmetane which haman foresight

 ber fred often and fail. for soreal farorable and fortmate




 ahdre ripemotanere i likely over to makr a single winter in the ier -uffiriont for it- arromplishment. But there is nos

 but in health and emmfore.

 -imere of the hmmialty. to attompt to reach the Nowth Poke


















Anatare, and a foot abart, with a 'hatf timber' of smatler size betwe en eath twe. On the outside of the freme thas fomed Was had a covering of Matckintosh's water proon (eanvas, the outer part being covered with tar. Orer this wa- phaced a phank for fir, only threesisteenthe of an inch thick; then at shept of stont folt : and over abl, an ork plank of the same thiskness as the fir: the whole of these bemes firmly and closely secured to the timbers by iron seress applied from without."
" ()n earh side of the keel," eontinues ("aptaim Parys. "and projecting consiblerably below it, wan attached a strong "rumner" shod with smooth steed, in the mannere of a sledge, upon which the hoat matedy reated while upon the ice." Two wheels were atso attached, but soon discarded ats usedese, owing to the uncernmese of the ice.
 crow: The Heclo arting as transore for the adrenture saiked Matreh 27, 1以27. and madr Hakhnyt's Hearthand hy the 13thof May, where she wats shontly beser hy ant ioc-flow wheh farmed her off to the eastwarl, cataing both debay and vexat tiom. loor the safery of the Hecter it wat fomed neressary to return to sfitzhergen and secore anchorage in at safe hathour. This Parre acomplished and, finding a combenient recos,
 of the experlition.

Having with him serontrond lats provisoms, em-isting

 for -hepping in, and stont likimo bootr. he got atway June


 hand and forat them. Gwing to the bettore comelition of the


 that it was dififoult to persubub oumetres of the reality Later the officor's and mbself, who were all furnished with
 pait of the twontr-four hours we had arrived ; and there were severed of the men who dechared, and I bediexe truly, that thery never knew night from day during the whole exemesion. When wor roe in the erening, we commencod our day bey pratere ; after which we took off our fur slemping dresies and phat on chothes for traveding, the fomer being made of camlet lined with raceoon skin, and the latter of strong bhae eloth. Wermate a perint alwas of puttine on the same stockinge and boots bor travellag in, whether they had heen dried dhring


 fios putting thern on in this state, ats they were sure (o) be
 jommes ; white, on the other hand, it was of vital importane







 ?






vance of more than a mile and a half or two miles in five or six hours．Reatizing the unfavourathe conditions：for reaching the pote，owing to the atbanced season of the year，Parry soon relinguished that hope and bent his cucrgies to reaching at best the $833^{\circ}$ paralles，if possible．But now to his utter dis－ couragement it wat fomed that the drifting of the show fields wat gradually carrying them backward，and that，in site of erery attempt to adranee，they were daily losing ground．

On July 2：3，they reached their farthees north， $82^{\circ} 4.5^{\prime}$ ． ＂At the extreme point of our journer，＂says Parre，＂our dis－ tance from the Hecle was only one humdred and serente－two mites in a s．Wh．direction．To aceomplish this distance，we had traversed，by our reckening．two humdred and nincte－two miles，of which atrout one humdred were performed be water previously to our entering the ice．As we travedled hy far the gereater part of our distance on the ice theree and not unfre－ quently five times over，we maty safely multiply the length of the road he two and a half ：so that our whole dietance，on a wery moderate catculation，amounted to fise humedred and （ighty geographical，or six humered and sixtr－eright statute mike．being nearly sufficiont to have reached the pote is a direet line．I＇p to this periond，we had hern particularly for－ tumate in the preserevation of our health．＂

Wwing to the incereasell sultures of the ice the return trip Whe exen mere diffient than the adrance，the men sinking ten their thighe in the iee shush．By the 11 the of Auguet the fortu！anmen of the surf hereking against the margin of the ise was heard，and later the beate were launched into opeon water，and in another ten days they rejoinod the It oftr，and some alterward sathen for Englame．

Parry＇s remarkable woyge，besides reapmen a rich harvert of serintifie data，had prowed the matigability of Lanmenter
 Prinee lawent Intet onened into Barrow strait，which in
furn wikened into Melville Found, amel thenere opened into ther joblar orean. He had added to the map the impertant arehipelago or Parry Istands, mathy of which he named and exphored; had outlined the sounds, hays and indets through which he had sated; diseovered Ilerela and Fury Strait; and demonstrated the impractieahility of making the northwest pasiage by way of Frozen strait.

## CHAPTER Y

Nineteenth century, continued: Scoreshy and Clavering.-Former visited Jan Mayen 1sland in 1s17, later visitent cast coast of Greentand, diseovered seoresby round. - In 1w2, (aptain L, on surveyed IIelville Peninsula. - Adjoining strait and fhomes of Arctic America. - In 1ND. (Gaptain Beechery in the Blosestm sailed through Behring prait and pased beyond Iey (ape. Furvered the mast as far as Point Barrow, adding 126 miles of

 Discovery of North Magnctic Pole hey nophew of (:aptain John Russ. - Commandor James Clark Rose - Valuablownervations. - Wheme jouncrs to mainland. - Four rears opent in the Aretic. - Perihus retrat. - - afe return. - Land joumer le (aptain Back. - The (ireat Fish-Back River. - Point ()che-- Point


 weyd wet -home betwern Return Rewf and (:ape Barow, In


 Raw ronfirmed ('aptain John Roses statoment that boothat was a peninsula.

The names of semesty and (lavering had heir own speriat interest in the lomg list of heromo of the merth. I pramean whakeman, of : an intelligent and wiontife fanm of



（＊ape whose summit is estmated at three thousand feet abowe the level of the sea．Bhat not until $1 \times 22$ did his dis－ eoveries reach the greatest importance．In this year，white searehing for better fishing grounds，he fell in with the atstern roast of（ireomland，athore ahmost entirely unknown，ex－ （er）t where the Duteh cogknies of Old（ireentand were sup）－ poseal to have been sitmated．skirting this bleak and barmen
 （overed them，pasing Janteon Land and finally reaching seoreds sommd．
 asidences of rute hathitations were seen，lat no human lex－ ing－diseosered．Procerding mothward，still following the
 where peint－of kand ant inkete，he was ohlieed to return，mot hatring ren actess the whakes which it was his business to －r＂ure．
fiond fortunce，howorer，fatomed him，for on the f．⿹勹巳th of
 were eecumen，amt the－hip now＂full－fishot＂rould make a hapys retam to Dinghant after athost sucersoful yeat．

 in Xomay，where sathime dewired for make erevain secentifie











White wating for ('aptain Sahine, C'lavering recomoitred the coast, amb was more fortumate than seoresty in rumbing arross some of the natives, who elosely resembled those deseribed hy Pary. By the begimning of september, sabine having completed his ohservations, the (eriper made her waty, not without difficulty and delays, hy way of Drontheim. back to Lingland.

In 1 Sot, (aptain Lyon, commanding the Criper, Was given the \{ask of the surver of Melvilte Poninsulat, adjoining straits, and the shore of Aretic Ameriea. Operlalen and unseaWerthy, the (iriper w:s totaty unfit for such an expecition, and upon reaching lioe Wekome, whe was struck by a oule which the eatemed the destruction of both the ship and arew. Sfer heing battered around at the merey of the stom for there days and nithts, in which commander and wew harl taken no rest or sle(p), she was finally hrought to anchor in a shallow hay, kater designated as God's Merey. IIere she was still in imminent denger of heing gromeded, and there seremed litto herpe of her surviving the high seas then ruming. The dew were ordered to prepare for the worst, and to this end (eath man was rommencled to put on his wamer chothing. Of this serne, (aptain Lyon writes:-
"Ladh, therefore, brought his bag on deek and deresed himsedf, and in the fine athtetie forms whelt stookl exposed
 sign of akarn. Pratyers were real. amd they then all sat (hown in eroup) , shelterod from the wath of the seat by what-
 sheep. Nover, perhaps, wat witheseed a fince some than on the deek of my little ship), weme all home of life hent heft
 altowed to be in cases of danger, yot I did mot believe it to be pos-ithe that among forty-one persens. but one rapming word thoukl have been uttered. Lateh wate at peate with
 that the re－imnation which wat laens flewn to the will of the

 Iッルッリ。

1－erom at the weather eomeditions permittole there at－

 hatiten！to thrat the（ripylat－hap）for home．
lmother esperition that set ant about thi－time（152．）


 batil．（：antam Buather wita－


 wasni－when the－kir i－withont at elonal．and whon the mirl－

















From here Captain Beechey despatehed the barge in charge of his heutemants to surver the coast. This they sueexesfully acomplished as far as Point Barrow, a distance of one hundred and twentr-six miles of new shore.

The last of Lugust, 1527 , formed the Blossom again at ('hamisis) lshand, where intereourse wits renewod with the Kkimos. By. Oetober, no new: having been received of Franklin, (aphain Beechey reluotantly shaped his homewarl (onlses. Not until the following year, () otober 12, 152S, diel he arrive in England, after an absence of three vears atod a hatle.

We now return to (ap)tain John Ross, whose profersional reputation hate suffered for ten yatrs, under the clout of his early fature. Exar ansious to retriera his unfortunate mistakes, he hat in vain implored the British Semiralty 10 semel hime omen mere to the Aretie. Entamed hy their reforal and indifferenere, he perserered in his demmination, and at Fast fomed a liberat supporter in Folix Booth, a rich distiller, Wha) (oontributed serentern thousand pounds toward the pre-
 which wats atoout theer thousithd porund more

I small Liverpool steamer called the lictory, ons humbed and fifty toms, was purdatal and provisioned for there yatro. Acommbanying (: iptain lanse. as socomb in command, was his mephew, James Ross. who hat ailend with him on the fiest




 of July: where they reopivel atmot hespitahle watcome hom

 from the governor. Failing morthrad, ther siphted the int
bo-ing montain- of Di-w I-land partially covered with









 They (xamment the senot, and fomal that thenesh the hall hat











 watwe. In the fow watk remaining, before the wintor



 $13 \ldots+1 \cdot 1$

experlitions, hoping to establish the possibility of a passage through to the west, when the summer should again free their ships, Dut after careful inspection it was coneluded that their only hope was to the north. Though the observations were made from sereral distant points, and much valuable information collected, the monthes rolled hy in hopelens sua(ession, with no apparent prospect of leaving this desotate spot.

Not until the 17th of September were the ships free, and feren then they adreaneed only three miles to find themestres blocked onee more, and a few days later hopelesty frozen in for another dreary winter. Not until April, 1s:30, were any excursions attempted, and in one of these C'ommander Jomes ( lark lases had the good fortune to diseover the North Dagnetic Pole in latitude $70^{\circ} \mathrm{j}^{\prime} \mathrm{17}^{\prime \prime}$, longitude $90^{\circ}$ $46^{\prime} 45^{\prime \prime} 11$.
-The plate of the observatory," he wites, "Was as near to the Magnetie Pole as the limited means which I posseresed enabled me to determine. The amonent of the dip, at indi-
 one minute of the vertical : while the proximity at leatet of this poke if not its artual existence where wo stool, was forthere eonfimed hy the action, or rather he the total inaction, of the sereral horizontal needles them in my posersation."
 fred my own mind on the subjeer. I made known to the party this oratifying reald of all our joint labors: and it was then that, amidet mutual congratulations. We fixed the Briti-h flage on the spot, ame took posisseion of the North Magotic Pole and its arloninge territory in the name of (reat Britain and King Willian IV. Wo had ahondance of matorials for haiddiar in the fremenchte of limestone that moverel the beach, and we
 buried at canister contaning a recom of the interoting fatt.











 mil...

Ther Thomath of a hhirl winter in the sheaty dretis haml















 31




Son until the fire of Jufy did the whone rexw rearh Fury Beath, after incordible obstackes had bern encountered and oroveome, the show and latorions adranee mate more areluwhe he the heary lowhe they earrod.

Inmmeliately, howerory, thery sot to work and reared a ramsate sheltel! whirh they eatled somerset Itomes. The following month wate agent in fitting out their beats. An open seal now eate them hoper of reachang, through Barrow strait, to Batifin Bar. I Coleregs and gates proved most dis-astern- to theif hopes and, aftor makine a heroid attempt, they fommel it neersestry to return to Fury Beach and spend their fourth winter in the Aretice

The winter prowed exeerdingly severe, and their eantas shedter quite insederpute to kerping out the eoble Howerer. mattere wore impored by a thick snow wall. Sickness. in the drearled form of ecotery, catsod moth unceainess, and in
 Their station had now beeome alarming. for if ther were ows liberated the following summere there was little chance of : any wit thoir namber surviring another year.

1- caty in the seazon a- it wat powible to travel, they set forth on them liforant-heath strugghe far saters. Redument in












 2.jth, wate they harboured for the night.

Bariy the following momines, they were aromat from *(ex) tiy ila lowkot man c"alling "a -ail." but thomeh they

 Wat hematmen! By harl rewing they reached her and foumi her to be the $I$ ertullo of Heth, a ship in whert Rose hat mathe



 scribus the soma on hoard that followenl: -





 Whon wathing wa- bot imli-pemathe: nor one whom hiv




 - ilf - - -

 1 : . .
 a- : ! ? ?



bare rock－，few could slecp anid the comifort of our new acemmondations．I wat myerlf competted to leare the bed Whidh had been kindly asigned me，and take my abode in a chatir for the night，nor did it fare much better with the rest．It wis for time to rexoncile us to this sudden and riokent change，to break through what had berome hatbit，and inure us onere more to the wate of our former days．＂
dfere five years in the Aretice．（aptain Rose and his reew were homswart bound，carrying with them a record wat－ preacelented in Aretie history．Boothiat Felin ham beren diesorereyl：the comenecting i－thmus hat been erossed to the nlatimand of Ameriea and explorations marle in the diree tion of Franklin Parsaqe，Victoria Strat，and King Willian shond：the Magnotic Pohe had been loceted；and a series of most valadibe o！servatione kept darine the entire periond．

Previons to lis arrival in England，the prolonged aberence of（ap）tain loss had catued gereat anxiety to his countrymen， and，ahthough his experdition had heen a private affair in no why commered with the Almiralty，the government never－ thenere felt it to be a national eonerem that linw fate and that of the erems thendet he ascertained if puseible．

Subareptiont were raizel to promote a relief expedition， hiherally ahdert on from ther publire treasury and an expertition

 Richated Kimes．With thered morn，ther laft Tiverpool．Febo－

 New Yonk ther wont to Xontreal．Where thoy semured four






On May 20, they arried at Fort William. By the first werk in June, the canoer readed fort Alexamber at the southern extremity of Lake limmipeng. (coating this lake, (aptain Back mate for Norway Ifomse, where bee secured his full comptement of ment, cightern in all, and there started in high surita for Fort Resolution, the eastern shome of the (iveat shate Lake. The chief ammenace experienced on this tong canoe trip) wats the torment frem mertiads of sambflikes and mosuritoce of which (aptain Bank whites:
"IIow (:an I posexilly give an ideat of the torment we me diase from the samb-flies? Is we dived inter the eronfined
 fing the air'; fore or to speak was expally difticult, for they rushed at cerery mudefombed part, and fixed thenir perisonons fange in an instant. ()ur fares stremen with homet an if teredore hawl beon applied, and there was a hmong and irritating pain, followed by immediate inflammation. and
 us to mo:n with pain ant amony.
 and otheres, redative to the cempe of the methem rivers of which he was in scench, (:aptain back dividen his party.


 himedi.









"For this oreation," he writes, "I hat reserved a little
 shared among the errell; whote weome tidings had rerifiod the motion of Dr. Richardson and myself, and thus placed beyond doubt the existence of the Thlen-eechoh, or Cireat Hi,h River."

Moring on, they foumd it was imposible to navigate MuskOx Leike in their fime canoes, owing to the forer of the rapids. Rearhinge ('linton Cohken Lake, ther met with some friendly Intlians. It (at or dreillery Lake the eanoes were abandoned, and the rest of their return journey wat made on foot
 step) woule have proved fatal.
lopon reaching Fort Radiance, thes fomme Mre. NeLeod hatl ereceted the fremework of their winter quarters. All hathe immediately turned to, amel hy the .th of November
 The winter now ere in with umbenal sererits. The unforthate Indians of this locality eame daily to the (amp) and imphomed fort for themselses and their starving familes. "Famine with how satunt and bony arm," writas Back, "pur-


"lt was imposihle to alfore! reliof to all, and the poor




 fuld of monddy penmisan intended for the doess. Wat received with gratitude.
"(1) iem." : wh! Banch. "did I Ahare my own plate with the


may not, he felt, hat that heart must be cased in steet which is

()n fambary 17 the themometer stoon at $70^{\circ}$ bedow zeroo. ()f this (xtreme mbth ('aptain Batk whtes:-
"such inctend was the ahstraction of heat, that with right targe loge of dry woon on the fire I coukd not get the theremometer higher than $12^{3}$ below zaro. Ink and paint froze, the sextant casti ank looxes of seatoned woot, principally fir, atl -plit. The -kin of the hands became dry, (rateked, amb operned into umsightly, shatione ga-hes. wheh wo were obliged to anomit with ereater. On one occeavion after wathing any fare within there feot of the fire, mey hair was actually clotted with ise before I hat tine to dry it."
 friently Indian athe whe hat arrimed whth at -itpply of hen

 ment- in the molde womb:





 1?









day was patsed in a fererish state of exeitement. Seldom, indeed, did my friend Mr. King or I indulge in a libation, but on this joyful ocetsion, economy wats forgotenn, a treat was given to the men, and for ourselves the soctial sympathies were quenched by a qenerous how of punelh."

The four monthe sient in the remarkable journer of (ap). tain Back and his men to the Polar sea are one eontinual recetal of harloneath escapes in the fatls, rapiok, ancl eataratets of the Thatererechoh, ant of the incerelible suffering and hardship havely endured hy all hands. In deseribing one of the it narew exeaper, where the hoat was ohliged to be lightened to, shoot the rapids, (aptain Batek writes:--
"I stood on a high rock, with an anxious heart, fo see her run it. Away they went with the eperel of an arrow, and in a moment, the foam ant rocks hid them from view: I head what sounded in my car like a wikl shriek; I followed with an agitation which may be eoncoiveri, and to my inexpressible joy, found that the shrick was the trimmphat whoop of the erers, who had lamded safoly in a small bay below."
()n the e?9th, white threating their eourse down the great river, they saw headlands to the north which gave them the assimetner that the mast was not far distant. To this majestie permontora, Back gatyo the name Vietoria.
"This then." he writes. "maty be comedered as the mouth of the Thalen-ex-d oh, which aftor at riokent and tortuons course
 an irom bihed country, without a singetere on the whole line of it - hanks, expanding into fivo large lakes, with chear horizon
 rakades, and raphis, to the mmatere of dighty-there in the

 miles mone someth thatn the month of the (oppermine liver. amol ninemern miles nomer sonth than that of lackers liser, at


Tho following davis were a sueression of inceredible hardships, the result of the dimp weathere, the haremeser of the cobest, and the soft smow end shash into which the men phanged knerferp) at exery step). Nofire coukl be lighted, and in comsepuenere they hat no means of sereuring wamath or cooked food ; the men herame low- - pirited and discouraged. The eoomtry Was flat and desolate, an "irvegukar phain of sathed and stomes; and had it not beem for a rill of water, the meandering of which rediesed the monotony of the sterike seeme one might hate fanced one's self in one of the parehed plains of the Fant, rathere thate on the shore of the Aretic tera."

Making a heroic adranoes. Back dizeovered and mamerd Point Ogle and Point Richardson, cethght a sight of Boothia

 format porsescion in the name of Mis Majesty, Willian I I , amid the enthusiastie cherems of his commentes. They left the

 aceording to appointment. and with hime readhed fort Reliancer on the 2 2th

A second winter wate pased in the wiklerones of the inhospitahle north, (keoted by Batk and I)r. King to whitiog their

 fithing fapmalitions.



 :and hy wey of Xew tomk 10 linglame whore her arivel at
 a month lalar.


Firh Piver. ('aptain Back reeceived from the Royal (ienMraphical soerioty their Royal premimn (a gold medal). In [wi.) he was kniglted, having already had the congratulations ancl approhation of His Majeaty, the King.

The following year ('aptain Back made another Aretie verage, in command of the ship Teror, up Hudson strait. Confortmately the ship got fast in the ice off (ape Comfort, and there remained at the merey of the destructive ice-pack through a dreary winter until the following July. the had heeome so diwabled that she was barely equal to crosing the Lthantie, but the return royage was fortunately aceomplished in sufety.

In 1s:36 the Hudson Bay (ompany, desiring to complete the surver of their northern territories, especially the coantlime of Aretic America, sent out two of their employees, Deate and simprom, with a party of twelve men.

Deserending the Mackenzie River to the sea, the survered the westward shore-tine between Return Reef and (ape Bamen: Two large rivers were diseovered, the Garry and (obeville. Though the season was midemmer, the ground was frozen, and northeasterly winds made progress very trying.

By the 1-t of Augut, further mavigation proved impracticable and. dividing the party: simpern, with seme of the mene continuen the journer on foot, and Deate remainch with the reat of the erew in charge of the beate. Simpen fell in wit! V.aknos, of whom he lired an onmiak, a large canoe. 10 aid hime aremadondemanded. I few dave later he writes: -
" 1 saw with indeseribable umotions Point Barrew stretehing out to the nom thand and encle-ing Elson Bas. near the Fattom of which wre were mow." Lientenant Bhom hating
 "hamber" in 1ath. Fpom the return of simperm the party wok ap wintor gatarters at (ipeat Bear Lake.

The followine Jane they desernded the（oppermine．where．



 and at chence at the wrehtanging diff－thht wa that there Wa＊
 intent．＂contmme－inupern，＂we were in the vortex：and，











 は11いい。











1) emphantment, rolled its free waves at my feet, and beyond the reach of vision to the castwarl. Fslands of ratious shapes and size overspered its surface, and the northern land terminated to the eve in a bold and lofty cape, bearing eastuotherst. thirty or forter miles distant, while the continental coad trembex away southeast. I stoot, in fact, on a remarkabie headland, at the (astern outlet of an ice-obstructed strait. (On the extensive land to the northward, I bestowed the name of our most gracious sovereign, (eueen Victoria. It- castem visible extremity I callerl ('ape Pelly, in complement of the governos of the IIurhon Bay ( omponys."

In 1839, Simpon ansl Deare mate a more sueceseful journey: The ice conditions being better, they saiterl through the strat that separates Vietoria Land from the mainland. Thes porforel on to simpeon strait, when divides Boothia from the mainland, and kater doubleal Point (Ogle. Upon reaching Montreal I-kand in Back:- Letmary, they found cortain provisions: left them her (apotain bark fien rears



 Byron, they emored (inomation (inde and finally rembered the








 sefobld watere of Rowand Parry.

this furpore amd put in eommant of twelve men．Dr．Rate is derribed at a mata of umbsual attamments．a surquon， atromomer，an ahbe steremant fombining with his ahblitios for leatership）the ateomplishments of a first－rate show－－hoer Walker and dead Shest．

Ufter a（anoe trip）of two months duration，the pratty
 the wintere and，as some as the weather would permit，set sat in two heats．and skited the shome of IIudzon baty．

It Fort（humednh thes fomm natives engaged in capturing white whakes，wherh make their way to these waters．Thery seerered the serveres of two ľkimos，father and son，（）olig－ buek hy name，who aceompanted the experdition as inter－


In patsinge（hesterfichl Thket．they head the ermoting ami



 vinitors took theon mat of my hathe amd hewan chavint them with lay stome terth，for that pupher of－atoming up the 1＂：1才地．＂






Thair lome winter wan－pent at limplan lialy where ther




 ： 1 H－

October the deer berame searee, but two hundred partridges were securecl, also a few salmon, so that by the time all game hat migrated, they had a fairly well-stocked larder. However, the quastion of fuel was a vexing one. as there was no wook to speak of, hut the eapiture of two seak supplied them with oil for theri lamps.

Toward Felruary it was found necessary to limit the men to one meal a day:

A- the pring advaneed, they made a series of journers. of these Dr. Rae deseribes making camp after a fatiguing day's travel:--
"()ur ustal mode of preparing loclgings for the night was a- follow: foron the we had sotecterl a spot for our snowhouse, our Ekimus, a-wisted by one or more of the men, commoneon entitine out block of show: When a sufficient numbor of these had been raised, the builder eommenced his work. his ascistants supplying him with material. A good roomy dwelling wat thus raised in an hour, if the sow was in a good state for buthling. Whilet our prineipal mason was thus orepuped, another of the party waw husy erecting a kitchen, which, although our cooking was none of the most delieate or exteutive, wat still : nerexsary addition to our establishment. hat it hern only to thaw shew. As soon as the showhut wat completeal. our sloctere were unloaded. and every catable inchuting parchment--kin and moose-skin shoes. whind had become now farenite artides with the degs) taken insile. ()ur beal was nest mades and be the time the sone wat thated or the water twilecl, as the cate might be we were all reade for supper. When we wewl alewhol for fuct which we Matally dial in stormy weather no kitchen wat reguired."

Ifter dare of (xposure and harlahip. Dr. Ran writes:
" Whe were aqain on ine mardh and arrived at our home at half pa-t dieht p.an.. :all well. but on batk and sampen on the foure from the combined offeete of oil, amokse and iroethites.
that our friends woukd not beliese hut that some serions acei dent liom the explosion of gumpoware hat happene to us. Thas sucerestulty terminated a journey hithe shert of six handred Vigelish miles, the longest, I betieve, aver made on foot along the Aretio "oast."
(of anoothere rif) made in May, Dr. Rac writes:
"()ur journey hitherto had been the most fatigumg I had rere experienced: the serore exerere, with a limited allowaner of food, hat meduced the whote party very manh. Howeres, We mateherl merrily ons, tightening our belts, -- mine cante in six inchas, the men vowing that when ther got on full allowancer ther would make up) for lort time."

By the iat of lugust, 1sta. the parter returned to divilizations, where Dr: Rate wate awarded fome handerd pomeds hy the Itudant Bayy (ompany for his imporyant servicers.

## CHAPTER VI

Sir John Franklin, - Farly life. - First land expedition of 1s19-1821. - Journcy from York Fartory to ('umberland House. - Rach Fort Providence. - Winter at Fort Enterpmise - Explorations. - 5.50 miles. - Hardship) - Starvation. - Return. - Second land journer. - 152. - Wnter quarters at (ircat Bear Lake. I )ereme of the Matkenzie River to the Polar reat. - 1200 mile of const addal to map. - The kas journcy of sir John Franklin, 1s.5. - The Ere us and Terom. - Last seen in Melville Bay.

So name hokls more romentic asociation with Aretic history than that of sir John Framkin. What a carcer, what lowe of adventure, what harlklips endured with heroie fortitule, what leatership that could inepire others to patsionate loxalts. and superhmonn emblurance under unspeakatile trials, and what a fote!

Jat us rexiew briefly a life that stands in the foremost rank of naval history. not so muth hex entent aditerement. as be that particatar charm of charaketer, indefinahle amd mathe, That is hased on those great qualitios of toleranere. justice, kyaltr, simplicity. abl wam affections.

Johm Franklin, the youngest enn ol twolye chiklem. Wats borm in the small mather town of spibhes Lincolnalime, April 16. 1-sti. Ite wat carty destined for the ehareh and orhucated

 the Vorth fos, with its owtwhelmine erandeur. changed his fatere and dexoled him fore the life of at sailor.

The sherew d old father. with that acmate knowlodge of the short-lived enthusiams of youth, put him to test, and at four-
teen years of ago young John served on a merehantman bound for liston. Comdamod hy the hated berth of a sailor
 phomus, bater ( 'aptain Lanford, keading in line at the battle of Copenhagen, Lard Nelson's hardest fought hattle.

His iron will, evor more firm in its determination for a life of adrenture socured him later a berth in the diseovery -hip) Inestigutor, exploring the coast of Austrabia. where Frambinn acopured valual, antronomical and survering skill under his able relative, (aptain Flinders.

Tramsereded to the Porpoise. which, in company with the Cato, was wrecked on a coral reef off the coast of Australia, August 18, 180): the lad, with one hundred and fifty others, spent fifty dass on a strip of sand only four feet athove water. (:aphain Flinders, after making his way 2.) (eagues to Port Jackeon in an open hoath, resened hise companions. Franklin finally reached (anton, where he sedured par-ate (o) Ehaland in 1he Earl Comder, East-hadiaman, under Sir Xathamiel Dance, eommodere of the (hina fleet.

In engatement with the french sfuatron oreented in Fobnuary, 140t, at wheh roung Franklin rendered raluahbe
 Wate asighed to the Bellorophon. At the hattle of Thatalgers.

 rame that won hime the unstintent athatation of his conntander.

Fon the bext two reats he served mater Velmirats (inth-walli-. St. Voucomt, and stratham: then for -ix year- in thre loulfomel.







## $\dagger$ <br> $=$

$\theta$

assigned to the Forth, whels, after the abdieation of Napoleon and the restoration of the Bourbons, conveyed the Duchess d'Angoukeme back to Franee.

It is not surprising that after such a varied and distinguished (areere, Fretuklin shoukd be one of the first to enter with wholesouled (nthusitsin into the renewed interest shown by England in Aretic diseovery and exploration.
(Of the Buchan expedition in whech Franklin was second in command, we atready know the history. The succeeding expeditions, though spoken of as failures in their main object, won for lint a renown quite unique in Aretie honours, and the last, so tragically fatal in its results, did more, through the numberleses searching parties sent out to diseover news of the missing ships, to extend the world's scientifie knowledge and geographical aceuracy of Aretie America, thath could possibly hate heen ateomphished hat the expedition been a suceers.
lBefore taking up in detail the journers of sir John Franklin, it might be well to mate note of a side-light in his remarkable chatareter. To this man a catreer meant the paramount ambition of hife, a parion stronger than the love of woman, of family, of home or phesieal fomforts. After the return of the Pucthan and Franklin expeedition, the gentle poeters, Anme Porten, who hatd writem " Viels, or Triumph of Constancer." the " ('irur de Lion," and a short poem on the Aretic expertition just returned. visited the Tome and met the gallant Johan Franklin in the fall hash of his youthful manhood. Ile foll in tove and upon his retum from his first land expedition, in 1以: ${ }^{\circ}$, they were married. Wht with the distinct understandhige that -weot Anme should "never, unter any diremmetances, seek to tum her hushamd aside from the duty he owed his combtry ath his cateer." And she kept her worl, but at What sampifion!

In June of the following fear a datughter was bone to them, but the mother never requined her heath ; a few months
later, putting in John Franklin's hand a silken flag to le carried north to vietory, the work of her dying fingers, the coura20, of :an conthasia-tio nation, upon that second journey- little gruesing she, too, was about to embark upon the great unknowno.
" IIy instructions, in substance," writes Franklin of the first hand expertition of 1als 1s21, "infomen me that the math whioer of the expedition was that of deternming the latitude and longitude of the nombern coast of Xorth Imerica, and the tremthe of that coat from the month of the (opper-


Ifo was amthorizel to takr eomunel with the Hatson Bay offocials, amb than his course acorolingly. In fact, much was

 nos with sif Nhexamber Matkenzie. the omly living English (exphores, when hat virited that eroa-1.

Seommbaniod hy lor. Richarkon, surgeon ant naturalist





Wh reaphine hark Fatome the principat depot of the ILat-




 - A小t




his start up the Hayes River, september 9. sailing was frefumblyraried by the arduous latbour of tracking, ansl not unfrempently a portage was found neces-ary, which acked to the fatigues and discouragements of the day.

At one of the outpost- of the ITurhon Bay Companys they Were again obliged to teare some of their stores under pronise that thes woukl be forwarked in the spring, and kater. at swamper Lake the tenants of the clepot gave them a supply of moukdy pemmicem, which of course harl to be thrown awtey later. Thas: fronn the ontere the experdition laboured under the fatal handicap of insufficient stores.

At ()xfork Homse, Itoby Like, they secured some good pommican ant aloo fish and, as the reason wa- atrancing, they pri-hed onvard, They finally reached the month of the Stskatehewan, and, following the river, they first arrived at Littho River, them Pine Iskud Laker, and at last, on October 2:3, Cumberland House. Aleadreice hewl impeded their journers, anil here theer determined to winter, at the invitation of Gorermon Williams.

Impationt to be on his way and clowirous of securing gradids, Junters, interperaters, and stopes for the journey to the sa, Franhkin, acoompaniol by Back and Heplourn, started,
 fifteren dats. dfere a wintor's foumes of eight hundred and

 only a limited amonent of proviaion- and the pro-peret of secturing mow wes nost disorurating, sicknese of the Imdianis ther hantines scaron foreand at scareity for the following spate: moroovere the rivalry of the fur eomplation ant the


 rearhing hime.

The tratedlers had suffered greathe from the unacedstomed use of show-shors. the werght of sereral pounds of show clinging to the shoes having gatled ant lamed their foet. Yet the journey hat not heen eonsidered as wearing as that from York Factory to ('umberland House.

The rexturn of gerse, theks, atul swans, together with the melting of the show and ier, now gate indications of approarhing spring. Mr. Hoord writes of this time:-
"The nowe made hy the frows. whieh thi- imundation produced. is ahmost incredible. There is strong reacon to beliese that thes outlive the sererits of winter. Ther hate often been found frozen, and revired hey warmth: nor is it pessible that the multiturle whieh inesseantly filled our ears with thesir diserordant notes eould hate heen matured in two or three datis.

- peraking of the resusptation of fish. Franklin werte:-
"If in this erompletely frozen sate. ther were thated befere the fire thes reenered therir athmation. Thin was par-


 ahate in the winter unter the neosedty of thatwe them
 far at to leap about with much visor after it had been frozen thirty-sis homm-

Richatdan tam Hood now jomed Frankling and the party
 Womam, and two interpretors. made their wat notherate It wate now the mitulle of Juty and their when -tonk of poro-






From the Indian chief Akaiteho they secured guides, the purty having been increased to twenty-nine, exchusive of three editheren. A journes of five humdred and fifty-two miles wat areomplished, with no little hardship. Latck of food :and other privation caused the ('anadian soyageurs to meak out in open mutiny. It Fort Enterprise winter quarters were established.

Early in (ectober, Back and a party returned to Fort Providence to arrange for the transportation of stores expected from cumberland House. The stores were anxionsly awaited, and it was hoped they would arrive by New Year's Day, 1821 . In the meantime the party were subsisting for the most part on reindeer meat, fish twice a week, and a little flour. The middle of January seven of Back's party returned, bringing with them as many stores as they could hatul.

I litte later Back returned, having performed on foot the remarkable journey of more than eleven humded miles on show-shoes. alerping in the open, with only the protection of it benket and a dewekin, the thermometer frequently at
 without fool.
The failure of the ereat fur companies to keep their contratt - haul mendeal in almost no provisions being secured. At Font linterprix it was now found necesary to curtail rations the the most meagre annount, and many of the Indian f:mili- (amped ahout the house were ohligen to atifye the ravimus of hunere with hones, deer's feet, and lite of other offal.
"When." tays Franklin, "we belledd them gnawine the piewo of hide, and poomting the bone- for the parposer of extractine some nourithnont from them by boiling. we rearetted our inakility to refieve them, hat little thomeht

sity of eaterly collefting these sume bones, a sexomel time, from the drune-hill."

Jon July. 1h2l, the experlition hating draeged canoes
 the ('inpormmes. emblarked mone the main ofjecet of the
 and it- eathon -idu they nanmel lmman Hatmor. The
 soons feil to thair lot. Therir-tuck of food. mendeni-hoel with a



 and the: (xphtome Xedvilhe somm and Bathurst Inlet. IF














$\square$



were pronounced by the most delicate amongst us to be excellont."

The effeets of suffering and famine hegan to show themselves in the inmporidenere and inditherence of the men. There fishing-nets were heft hehind, and one of the canoes broksn and abandoned. Moseses, an oceational partritger, tripe de roche, hits of singed hide, and such marrow as coukl be extracted from finds of bones of anmats formed their only dive.

Though weak and lame, Batek pushed forward in search of relief. (one by one the starving men fell by the waysite. Hood, suffering from the efferets of tripe de roche, which nevere agreed with him, heesme too exhancted to procered, and Dr. Richardeon volunterered to remain with him. Lsone by one the varions members dropporl down with fatigue, only five besules Pranklin were left in the adranee partr. These contimed theire weary pilorinaser, cheered with the lome that at Foot Enterpmise would be found whelem athd the mudt-meeded *upplies which hat? heen promizal them. . Jtas! thair grow atht disappointment maty he imaginel upon entering this wreqhed deport to find it desolate and withont at retige


 ing how we hat heren hegheden: the whole party elad taars, not *o meth for onr own fate ar for that of our fricouts in the rear whon lives depenterl ontienty one ourding innmediatio redief from this phace."

To that -arpurn they fonme a note from Thark atathes


 demex. thangh he dombted if he and his party comld reath there is theit preant matortumate contlitions.

Franklin and his men gathered tegether what could bee wowd as ford and found orreal derekins that hand been thrown away the previous year and a fow bones sathered frem the refure heap. These, with tripe di methe they made into a soup and endearoured to smpert life on the patrind ma-s. Later on one more member of the party came in, and at das or two after a man namod Batanger of Banki-s party reached (amp) in all hat a dying comdition. It hand fallem into at rapid, had come near drowning, and wat then -peerethlen from exhanation and experare. Whan wammed. Ary
 Peatored to an-wey questions.

Back had not found the Inlians and was making ion Font Providence. Thither Franklin detemineal to midow him
 matil suceorer should he sent in thom. (Wwing io an mo-
 tor return to (amp the next days shating on hi- ermpmionalontr.

The peres wetenes that had heen left at Font Fontempriw were in -urh at wedkenent -tate that it wat with diffiralty that Franklin could renace them to any exertom.
 on the river. ahene half a mile from the homer: there remament thew a hone time. hat imbe of the batey fort then-









lin, "I and my there companions ravenously devoured our Whares, at it was the first moresh of flesh any of wis had tanted for thirty-one datr, unlers, indeed, the -mall, gristly particles which we found ocerationally adhering to the pounded bones may be called flew.."

Dr. Richardoon then told of the tragic death of Hood, who had lseen murderen les the Iroquois, Miched, whose threatening demeanour they had noted for emone dares and whom the afterwards sumected of having put an end to two other mombere of the party. I'mere the circumstancer, as a matter of erlf-preservation, it was deemed neresasary to end the Indian:s life, and this Dr. Richatrison did with a pistolshot.

The day after the arrival of Richatedeon and Itephorn, (wo of the party died. Finally, early in November, Indian mesemens: sent be Back brought the longed-for relicef, the Indian- "ovincing hamanity that would have done hemer to the mot civilizen perple." When the party were suffi- , rematy rowtored to health with food and kind muring. they -tarton for Fort (hipewran, where they remained until Jone of the following year. In Juls they reacheal York Factory, whene there seare hefore the hawl sarted out.

In this remarketke joumer of ower fixe thousand five humbed amd fifty milas. laman mulurane and patience hat
 fortituth with which these herome haved a fate that thereatened them at exerys atep, make thi cone of the mot remark-





In "onjunction with the Beanther expedtition in the Blusemen


under his chatge. The outline of operations was for this party to deseend the Matekenzie River to the seat, and there to divide the foree one seedion to explore the coast east to the ('opperemine, while the other should take a westerly course and round Ior (ape and, if posiblle, Bodring strait. Profiting bey past experience, the party were amply pret visioned from the outset ; in fact, at delay of some months Wat required to sereme the neecessary anoment of permmican.

Endatuted her the hardships emdured on the previons voyage, Batck and Richatrdson vohmorerod asain to acoompany Pranklin; Nr. Kendall, atmate in the naty. and Mr. TT. Drummond, at naturalist, were also of the party. Four catefully comstructed boats were sent ahead in one of the Hud-om Bay (ompany's ships, and in Juty, L82.), the Franklin party reached Fort (lhimewatn.

These reached (ireat beate Lake without incident, and there ereeted winter gututers imder the dieretion of Betek and Deate, the latter being detaled bey the Ifudson bay ('ompany
 advaneorl, Franklin sot out, with a smadl part w, to makr a
 examining the state of the Polar seat They rearhed an
 eondent the exmmit, from which "therest appeated in all its majestre ontirely fres from ice, and without amy visible





"I wit mat." write Pranklin. "attempt to deseribe my"

 Framilan, athl the home wintor wita pasood in comparative
romfort. Every offort was marle to amuse and interest the men, the entire number consisting of nearly fifty, including guides, interpreters, ('anadian voyageurs, and Indians.

The following June, 1526, preparations were made for the important work of the expedition. Descenting the Xackenzie in four hoats to the Polar sea, the party here divided, ('aptain Franklin and Lieutenant Back with fourtecn men pushing to the west warel, Dr. Richarekon with Mr. Kendall ascisted by ten men in two boate going in an easterly direction toward the Coppermine River.
foon after parting, Franklin's party had an unfortmate encomenter with E-kimus. who pillaqed their stores and caltent thent con-illerable amovance. Mraking his way westwarl, he cheomenterel disty weather and penctrating fors, which kept the poor shivering men perpetnatly enveloped in monisture. Ifoweser, hereaderd latitude $70^{\circ} 24^{\prime}$
 after Lientemant Back. Ho buel survered there humdred and seremt r -four milon of coast.

It was now dermed andvisable to retum, and hes soptember 31 the party reachen Font Franklin, where Ridardson and his party hat retmend some dats eathor atter a sucerosful resage of five humbed miter, or nine humdred and two hes the const-linc.

The parter inder lichardwon had been faverured with good weather. and theneh detaned hy an oreational storm. Were on the whele most fortumate. (One of the ene shems, Refuge (ove 1)r. Richathone hewribes:-

 Methe show hive wem hatehing on the point: and we saw

 together wih terne and northern dixere. some lanuhing
gerece paserl to the northward in the evening, which may be comsindered ats as sure indication of hand in that direetion."
buring the second winter pateed at Fort Franklin, the thermometer fed ato low as - so bolow zero. The Englishmen spent their time in making seientific ohservations and com-
 hinex with good health, mande it pase comparatively quiclily, and in the epring the party mate their way hate to England.

Honomeof the most distinguished chatacter alwaited Franklin mpon his return. To the map of North Amerieat he had atifect ars lese thatn twolve humberel miles, for whech the nation
 ()xtoret confermet on him the degree of D) ('.L. and the


In his second marriage Franklin was most fortumate in Wimmine a cultured, travelled woman of wadth. Jane (iriffin, Whose -ympathen were entiedy in hamony with his own, atme whese bevetion to his memory kept alive for twelse
















＂I soce Franklin is sixty years old．Onght we to het him go？＂to which Parry answered，－
＂My lord，he is the best man for the post I know，and if you don＇t let him go，he will，I ann certain，die of disap－ pointment．＂

In an interviow with Franklin，Lord Itaddington epoke again of his age being sixty，and atderd，－
＂You might be content with your lanele，after having done so much for your country，＂to which Franklin replied with all the eagerness of youth，－
＂No，no！my lord，only fifty－nine！＂
Lord Brougham，when todd that the command had heen aceepted hy Franklin，remarked，
＂Aretie work gete into the hood of these men．Thery can＇t help gomg again if they get a rhaner．＂

The Eirebus and Terror were both shigs that had serens many years＇s．rvion in Aretie and Antaretio seas．＇They were provisioned for three pears and suppled with orery facility for scientifie and geographical oherreations．The com－ bined erows amd offieres mumber one handerd and thirty－ right sonls．In company with the tramsonert，Bateto ofumion＇， the expedition sated from Geenhithe on the lath of Mas， 1心年。

The the of July，ther reatehed Whate Fish Islamd，neal
 to the Ereobex and Torpor here extas stores，returning to Eng－ land with the last mesadge from Franklin over reereived by the Anmiralt：－
＂The ships ate now complete with supplies of arery kind for there pats：thery are therefore very deep），hat happily


 had written，＂than when we helt home，and reall！fowk tom

Sear somerr. Ho take an action part in formothing that
 most valuathe emblame.
(on the ebith of July, the Prime of THole a a whaling rearel,



 inge ups. the Einhow and Tirom partel company with the Primer uf Il alos.

I- if allmmaty inakomma hy that fat at onshathtrese, the

 1:- tor the word fomerer.

## CHAPTER YII

Search for Sir John Franklin．－Captain Fillott．－Captain Moore．
 －Dr．Coodnir．－Cominson and II＇（Ture．－The Falice－Prince ．lhert．－Commanded by Charles（＇Forevth．－Caphain Austin＇s
 －－Commander Cator＂．－（irimedl expedition under D）IFaren．

No tidings of the Erebus and Terof having reached England by the chooe of 1sta，ercat anxioy wat folt as to the where－ abouts and fate of the mix－sing－hipe．The goternment im－
 The firet win to ero westrarl to Behnemg strat，and there
 co－－hal in making the objee of their rosare and for this firpose（aptain Iberry Kollett commanding the Mtrald and （＇aptain Doore in the ship）I＇lowe left England in Jantary， 1ヶけ。


 of that fathtat comboanion amd frionl of sir John Franklin，







（）wing to the poor satinge quatition of the Plemer ant ！．）

Incorth, the ships were unable to reach high latitudes in time to penctrate to the nerthward that season, and not until the following Juks, in company with the Niancy Deterom, a pleature yacht helonging to Robert shedon, Ext., did they pursue the main ohjow of their expedition. Juty 18, 1819, they left ('haniseo, and on the 20th they were off ('ape Lisburn: five days later they pasied ley Point. Here they dexpatehed the Ilerald's pimmace and there other boats, with a party of twenty-five men with three monthe' provisions, under command of Lientenant Pullen, whose instructions were fo eommed with the Riehardson party, one division in two whate-boat: 10 extem the seareh to the Mackenzie River, aseend that river, and return homeward by Fort Hope and York Fitudory ; the remaining division to return to the remalexous of the whigs at (hamises) Istand.

The It onded and I'lorer ernised nerthward as far as the iow woukt permit, then explered the eoast-tine in detait. On
 chowe to the istand, they found it harren, and for the most part of inaterosikje granite e chifls.

The Vancy Deneson :and the return beats under Lieutenant Putten rejomed the Itoreld be the 2th of August. They hat parted company with the two whate-theats at Dease Inled. They had foum no tracom of the Franklin expertition, fout haw Ioft depmeite of provisions at intervate atong the route.

Thac following monthe were surent in winter quarters. and as eron : the weather permited, in careful examination of
 hope of fimting traco of the mixing barts. Divappeinted
 15.i).



"In the voyage between the Mackenzie and ('oppermine, I fatefully executed their forkhips instructions with reepect to the examination of the coast-tine, and became fully convinerel that no ships had pasced within view of the mainland. It is, indeed, nearly imposible that they could hare done so unobserved by some of the numerous parties of Eskimos on the look-ont for whales. We were, moreover, informed by the Exkimos of Bark's Inlet, that the ice had been pressing on their shore nearly the whole summer ; and its closely packed condition when we left it on the 4 th of September made it highly improbable that it would open for ship nariGation later in the seazon. I regretted extremely that the state of the ice prerented me from crossing to Wollaston Lend, and thus completing, in one season, the whole seheme of their lorelships instructions. The opening between Wollaston and Victoria Lands has ahwars appeared to mes to persess great interest, for through it the flood-tide eridemily sots into Coronation (rulf, diverging to the westward by the Dolphin and Conion Strait, and to the eastward round ('itpe Alexamder. By the fifth chane of Sir John Franktin's instrustions, he is direeterl to stecer southwestward from (ape Walker, whele woukl kead him nearly in the direetion of the -trait in question. If Sir John found Barrow strait at opera whe whe fir Fdwarl Parry patexl it on fom proVions onearions, I am convincod that eomphying as exactly as he condl with his instructions and without kooking into Wralington somel. or other openings ather to the south or
 Walker, and from thenere sonthwestwards. If so, the ships
 tomia, Bank- and Wollatom Lands.
"Bedne apprehemsive that the hoats I left on the eon-t wond he broken up he the E-kimos. amd haing. moternar. of minion that the examination of the opening in cutertion
might be safely ancl officiently performed in the only remaining hoat I had fit for the transport from Bear Lake to the ('oppermine, I detemmerl to entrust this important serviee to Mr. Race, who volunterered, and whos:e ability and zeal in the eatuse l camot too highly commend. Ife setected an excethent crew, ath of them experienced vogagene and capahow of finding their way hack to Bear Lake without guides, shoukl any unforeseen acedent alporive theme of their leader.
"Iu the month of Darch (1819) a sufficient supply of pembmitean, and other neeresarystores, with the equipments of the boat, were tranciorted over the snow on dog-serdges to a navigable part of the Remelath River, and keft there monder the charge of two ment. As soon as the bease broke up in Jume, Mr. Race would follow, with the hoat, the rest of the erow, and a party of Indian hantors, and wonlel desocond the (oppermine Riser atout the mathe of Juhe at which time the seat gemerally begins to break up). Ile woukl theme,
 Land, and endeator to penctrate to the northward, erecting signaterolumms, and making depositx on eomspicumbs heat-

 further instrueted met fo hazaral the silder of his jatery ber remaning too longe on the morth side of Dolphin and I nime
 state of the iere ams such intolligener as he might ohath


 amy paty that may dixact theire "enume that way."


 the British Aemiralty -tatime that after pas-inge a secemel


－1．にないに
winter near Port Leopohl, should no traces of Sir John Franklin's party be discovered, he woukd send the Imestigutor under' ('aptain Bird bark to England and proceed with the seareh alone.

This calised great uneasiness at the Admiralty, and the Nowth Ster was at onee deepatched with a supply of extra stores and instruction to Rosis to remain in company with the Imestigator and not follow out the design expressed in his ketter. 'Ther North star wats further instrueted that shoukt she fail to reach the ships, stores were to be left at the farthest point she coukl reach in safety, and then she shoukd return to Englame. Though explicitly warned against getting beset in the ice, the sexson of 1819 passed, and the Nonth stuer dicl not return, thus causing great anxioty in longtand as to her safetr.

To return to the Enterprise and Investigetor, these two ships, after leaving C pormavik, had found vory unfavourable conditions in the ice, which necessitated towing the ships of prowocting slowly under light winds and cahns. By the 2st of lugust, the ships had reached Pont Bay, having sustained servere shocks through ier pressure and other discouraging comblitions. Thes kept choen to the shore, firmg gins and sombing up signals at frequent intervals, but no sign of Eskinto or other human beinge were diseovered.

I pon reaphing Posersion Bay, a party was sent on shore (1) search for traces of the experlition, hut nothing was found exept a paper left there hes sir Edward Parry on the same day ( Aurust 30) in 1819. Igain at Cape York another party went athore, and, thongh no trares were fomund, a con-- phobous mark was erected for the hemefit of any ot her party that might rawah there. Tha ships then procereded.

 dense for us to penetrate, lying between us and Leopobld

I-hand, about fourtern miles broad; we therefore roasted the north shore of Barrow strait, to seek a harbour further to the westward, and to examine the numerous inlete of that shore. Jaxwell Bay, and several -maller indentations, were thoroughly explored, and, although we got near the cutranee of Wellington ('hamel, the firm barrier of iee which stretched arcoss it, and which had not hooken away this seatom, convinerel as all was imprateticalle in that direction. We now
 noll. hot found a heary boly of ief extembing frem the west of (ommwallis Flancl. (oast hg along tho pack luring storme and fogey wrather, we hard difficulty in kerping the *hips free during the nighto for I hedieve so great at ruantity of ior wite neror bofore sern in Batrow stratit at thiperionl of the - (ataon."



 jommers were modertaken durine this wintor ant the cote-t carndully (examinmel in all directions. hat no trate of Framklin or his shipe was diseovered.

Thu drew catught in trap- a number of white foxers, and











more that hatf our provisions, and the strengith of the party being much redued, I was reluetantly rompelled to abbandon further operations, ats it was, moreorer, neeresary to give the men at day of rest. Buat that the time might not be wholly lose, I proceeded with two hands to the extreme sobuth point ins sight from our encampment, distant about right or nine miles."

1) uring the ahsence of (aptain Ross, other parties had exphored the vicinity of ("aper Itind, and another atong' the western thore. This hast party moter Lientenant Robinoon reached as far as Croswoll Bay, a few mile to the southwatel of Fury Beach. Ho fomm the house in which rif John Rose had wintered in 1432-18:33, with a quantits of - Wores and provisions of the Frary, that hat been there sinee 1-2. and were in exeellent state of preservation.

Prepartiont were now marle for leaving Port Leopold.
 amble if fracihle, to pernetrate as far as Mopsille hatand. To

 This tombor work wets aceomphithed he the late of August. hat lofore learinge a -helter was hailt on land, twote montha'


 -gher. Hatrlly hat the -hips wot under way whers a strong


hrear! wintar, hat the wind hifted to tha wostward, the wheld !owly of ior being driven to the eat watel, and in the




 into imnumerable frugnomt-, and the ships were f̈reed.
"It once all suil was set, Warps were run out from dll quateres, to arsist the ehip) through the heary flofes and at last the Imestigator and Enterprise found themsedere in opern Water."
"It is imposible." whites Roses, "to convery any intor of

 thathegivines to Almighty (iorl for thin matooked-for delixerance.
"The adranco of winter had now elo-od atll the lartoours


 tion to feotimato Jonslanl."



















In the epring of 1819 , she sent ont provisions and coal for the wes of the missing ships, and these were carried in the whaling ship) Trmetore, in charge of Mr. l'arker, and were landed at ("ape May on the south side of Latmeanter somed.

In 1si9, I)r. (ioodsir, whose brother had sated in the Erblue at aseistant surgeon, went north on the whaling ship Sderice, under ('aptain Pemny, and penetrated to Lanceteter somud, but wats debarred from entering Prince Regent Inter ley the iere. The Adrice elowely skirted the shomes, and deposited provisions, hat found no tratere of the missing ships, and woturned to England. In the meantime, the Enterprise and Imestigator, the gallant ships of the thise government experlition pereiou-ly deseribed, were boing refitted and provisoned for the pupose of gomg he way of south America to Bohsing Strat. Sailing from Plymouth somol January 2(),
 ('ollinson, and the Imeatigetor' under ('ommanter M' ('lure, mande a compatratively fast men to the Pacifie. Isy the midelle of Anguet tion İnurpmise foll in with the ice. It Crantly Ilantor, commanication with the Planer and Ilerald determinad (aptain (aflinson to procered to Hongkong, there (o) replemish hi- stome and not attempt to pernetrate the iee until the following Ipril.

In the menatime the Xorth star with her provisions and





 pense of Laty Pranklin: hat sated warly in the spring and,



of one hundred and twenty tons, provisioned for righteen monthe and buder that voteran seat ratain and explorer. sir John Rose. The Felice hael beern equipped by puble subseription athe sent out for the purpore of sedrehing the west side of the entrance of Whallington ('hannel from ("ape Hothan to bank- Land.

The North star deposited a quantity of previsions at a point the emmmander named Naty Boatrd Inlet. on the



 pard he the devoted Lady Franklin. Whathed ratiod the mox-

 Mr. II: P. show had roluntered theil worvere withomit erompensation, and the ofgere of this expertition wat to exam-












 -ynal. l:11い。



(o) join heart and hand in the enterprise of snatehing the lost mavigators from a dreary grave." such an eloquent appeal could not help but rouse the country to the strongest feeling of sympathy and interest. But the prolonget elelays incident to our national legistation threatened to defeat her request, until a generous philanthropist, Mr. Henry Grimell, a New York merchant of great wealth, stepped forward with the imunifieent offer of two well-equipped vessels, the Adrance of one hundred and forty tons, and the Rescue of ninety tons, which he placed at the disposition of the government. Congreses aerepterl this generous gift, and the ships were placed under the direction of the Nary Board. The command was given to Lieutenant E. De Haven, a most zealous and able naval officer: Mr. Murtock was sailing master, with Dr. E. K. Kane, that remarkahle man "weak in boely lout great in mind," whose suceceling journeys contributed so much to solving the mystery surrounding the fate of the lost ships.

The (irinnell expedition left New York on May 2:3, 1850, and was absent about sixteen menths.

It will thus berern that the Aretie seas had never been so roplete with expeditions, whose horoie objeet was the searech for missing eomrades : and the year 18.50-1851 was one of unparalleded arlventure exploration, and discovery, but alas! only the most meagre trates of the brave mariners were found, whese deplorable fate stirred the sympathy of the eivilized worlel.

The - mefarourable conditions of the "midelle ice" in Baffin Bay and the Xedville Bay harrier caused the searehing expeditions great differultics and diseouraging delays. So stremuwhe were the comblitions at time that the offerers and frems of the smaller resseds mate exery preparation to leate the shipe at a moment's notiere, shoulal these vesoots be crushert in the iote By horing. tracking, and cutting, ame by one ship towitg the other through loose iere at the oecesion demandel,
show but steady adrame wats mate to the dexired latitudes. Nost interesting are the experienees of the litale Prince Albut, Lad! Flatiklin's ship.

In doceribing a daring attack of this little craft upon ieefloce, Mr. ston writes most eraplieally: -
 break therowh the imperliment, hy foreme the ship umber a

 of the nerek. Is this wat the first and only time the Prince Alhery was mate to come direct upen the ice fo break it with the foree she would derive from a press of sath, we were all amsion to ser how she mond stand it : and right well did she hear ther tos. The two mates were atoft in the 'rerow's nes: * to con 1! we veroct: I wats stameling on the extreme perint of hor bow and hodding on hy the fore-atay to diexet how mosemment when immoliatoly upon the iow : and (aphatn Fonerth wat he the sude of the helmsman. Exers man was at some particular station, and reaty to perform ansthang that witc instantly requiped of hims. (oosk and stewat were












 it with at-peral of at leat right mites in the loorr. 'Ther dis-
tance from the neek was about a mile, and the breeze blew -treulily upon it. The weakest and marrowest part was that chore to the starboard floe, and to that our eyes were all directect.
""Port! starhoard! So-O-steady!" was cyery now and then bewleel out with stentorian lungs from aloft. and as energetically and promptly mepeated, by the captain below, to the man at the wheel. Presently she eame close to - she wat almo-t upon it - a mistaken hail from aloft wouk have pout her hedm a-port, and somt her crusting upon the hears floe. I heard the order " $(t-p$ mert, and, before it had been repeated, shouted loudly, with the men around me, who alwo satw the mistake, "starlyourd! sturbourd! hurd a-sturboaid!" and in the next instant, with a tremembus blow, that for the moment made her reforand and tremble, she struck the iee in the exart point, and couserl it to rend apart in seromal
 in requat : and mysedf and half a doach men oprane instantly ower the how, working with hands and feet and will all our miwh in removing the thoken piowe les puxhing them ahowl of the rewel ; whinh latour, she herelf, materially ated u- le her own power prosing upon them. In a monent or two it was offectom, and throwing onselves aboard again tike at many wihl (eato, we propared for the nest oncounter.
"This, howerer. proved mothing like the other. The first bhew sent the whene of it flyme in all directions, and the lit the P'rince, as if in hanelay diatain, pussed through without one
 In :mether moment on (wo wo wore in a larger -hew of water.



 make fatt."

Thumelay, August 1.5, Mr. Snow makes the entry, "W0 were, now, fairly in what is cated ly Aredie seatom, the - Nopth Wiater, and ath semomed chear lefore ns."

By the 2lst the little Prince Albert found herself off Port Loopobld. Here a party made a difficult kanding in a guttaperehat boat and foumb the house constructed he sir James ( ${ }^{\text {. Ross, somewhat rent by the winter storms, but the pro- }}$
 reaty to carry any ship)weded (orew fo satedy:

The l'rince theer now made for Priner leseent Inked athe soon after stood off Fury beath. From this point the outhook was disoouraging, as an expatnse of hummonchy ior whthout the slightest sign of an opening extented as far as the ere cound reateh.

It was now fommd neressary to abmentom the main ohjoct of the expertition; that is, the examination of the shome of Boothia, and the ship furned with the parpored of chosely seaming the shomes and headtands at the theoat of Barrow strat and as short dixtano up) Wrallington ('hammel. In Janrow strait, they epoke the Amoric:an hrig Ademes: by the 2th they neared ( ${ }^{2}$ ape Itind. On this day they satw the Lad!y fromlilin amb sophial, amd hater obsorval there mope chips in Wedlington ('hammel.

The next day, whike off ("ape spencer, the oftieers of the


 acerideal to matio for lemme.






" As the boat touched the shelving rocks," writes Mr. snow, "I hastily sprang out into the water, leaving the men to seceure her ; and ran to the signal-post ahout fifty yards offi. I was there in a moment, with Grate pose at my heeks. A few paces off I obserwed another and a rougher post ereeted, but this one had a small flag flying, and was evidently the prineripal. I really camot tell whether the evtinder handed to me in the eourse of a seeond or two had been huried or merely tiod to the post, so intent was I upon eonjeeturing what news I shoukd reecive. My hands trembled with eagerness, and I coukd hardly read the paper. It wat as follows:-
". Her Majesty's Aretie Scarehing Experlition.
"'This is to eortify that ('aptain ()mmaney with the officers of her Majosty's ships Assistence and Intrepid, landed at ('ape Riley on the 23d of August, 18.0), where he found trace of an encampment, and colleceded the rematins of materials whet evidently prove that some party belonging to her Majoety's ships have been detamed on this spot. Beechey Island wats ako examined, where traees were found of the sambe parts.
". This is also to give notier that a supply of provisions and fusel is at Port Leopold. Iter Majestres ships, Aswisteme and Intropid. were thetached from the squadron umber ( aptain Anstin, off Wolstenhohne, on the l.5th inst., since when they have examined the north shore of Lameaster sound ansl Barrow strat, without meeting ayy other traces. ('aptain (bumanner proceste to ('ape Fotham and ('ape Wiatker in seareh for further traces of Sir John Franklins experdition.
"Dated on hoard her Majesty's ship . Insistonce off ('ape Riley, August 23, 18.50.
". Vfter the other signal-post hat here examinem." comtinus-


 The nem haw alos. previously to my telling them and with ant alacrity that did theme eredit. commencent a most proving





















 … $1 . \because$



HENRY (ifINVEL」

$\stackrel{-}{+}$

II

Wellington ('hames had been without doubt the site of Franklin's first winter quarters. At ('ape spencer, some ten miles abore (ape Rilery, a ground phace for a tent was foumd, the floor pared with small stones. About the tent birels' bones and meat eamisters were foums. Numerous shedge track along the shore wore abse noticeat.
()i the examination of Beechey Iskma, Lieutenant ()xhorn writes:-
"A long point of land shopes ervatuatly from the southern huffes of this now deeply interesting iskand, unil it ahmost comnects itarelf with the land of North Devon, forming on eithere side of it two geood and commortions loats. (On this slope a multitude of presereed-meat tins were strewed about: and ne:lr them, and on the ridge of the slope, a carefully constructed eaim with diseovered ; it consisted of layers of fitted tins, filled with graved, and plated to form a firm and solid formetation. Berond this, and atong the northern shore of bocethey laked, the fothowine traces were then quickly discotered: the embankment of a house, with carpenters' and armorex working places, wawher tubs. eothathos, piecos of ohd chothinge rope amd, lastly, the graven of there of the erew of the livelus: and Terme, bearing date of the winter of 1815 1sto. We therefore now had tasertained the first winter-quatmor- of 大ir John Franklin.
 nant of a gatem for remmant it now only was, hatring heren


 gemial part of thi- drear? requm, contrime -till to -hom
 had -owod in the samem har decated away.
 showed the amomer" - working-place : ant, akong an ohl wator-
course, now chained up hy frost, sereral tubs, constructed of the cmuls of salt-meat cetsks, left mo douth as to the washingplatere of the men of Framklin's squathem. Happerning to
 upon, I was pheased to sere a pair of cathonere glovers latid out to dry, with two smatls stones on the patms to prevent their blowing away ; they had been there sinere 1816. I took them up) carefully, as melancholy mementocs of my missing friencls. In another epot a flamed was diseovered ; and this. together with some thinge lying about, would, in my ignoranee of wintaring in the Aretie regions, have led me to suppore that there was emsiderable hatese displayed in the departure of the Erebus and Terror from the spot, had not ( apptain dustin assured me that there wat nothing to ground sude a bedief upon, and that, from experience. he could woth for there being nothing more than the ordinary trades of a winter station : and this opinion was fully borne out hy thore offocers Who had, in the previous year. wintered in Port Leopold, one of them ascerting that people left winter grarters too well phe:serd to escape to catre muela for a handfal of shatinge. ath oht (onththag. of a washing tub,"
()n the heatetones of the there graves pesting in that heak and desolate shore were the following inseriptions:-

$$
\begin{aligned}
& \text { siarered } \\
& \text { to the } \\
& \text { Memorr } \\
& \text { () }{ }^{\circ} \\
& \text { IV. Branne. R. II. } \\
& \text { 11. X. A. lmohus. }
\end{aligned}
$$




## Sacred to the Memory of John Hartwell, A. B. of H. M. S. <br> Erebus, Aged 23 years.

 "Thus saith the Lord, consider your wass."Hagoai, I. 7.

## Sacred

to
The Memory
of
John Torrington, Who departed this life, January 1st, A.D.. 1846, On board of H. M. 's ship Terror, Aged 20 years.

No other writen record was found. The lost expertition had reemingly folded its tents, in the mysterious gloon of the Arotic night, and silently cropet away

Now, just as the searehers had struck the trail, and were heot upon the seent, the icy clutch of the long winter arrested their endearouts. imperiously demanted of them patiencer. rourage, endurance and enfored upon then the wearinese of monthe of waiting. Thius the scuaderon took up winter quatere at the southern extremity of (onmwallis Lathe: the (irimed experlition, following its instrumbon, made an attempt to return home, hat was soon shat up in Wellington
 and forware at the merer of the iere (of their attempt - ©o escape heing ier-heomed for the winter, I)r. Kitne drath: it livedy picture.

- phanher lis.
"The natrigation is orptainly exciting. I have nerer sern a dwatiption in mes Aretic reatinge of anytheng like this.




 jerkent the time-kraper frome oter himatede down the (athin















 I: $\quad \therefore \quad$ :


nor was it the slushy scraping of sludge. We may all of us remember in the skating frolice of arly dars, the peculiar reverterating out cry of a pebble, as we towed it from us along the erlger of an old mill-flam, and heard it dying away in erehoes ahmost musieat. Thagine such a tone as this, combinerl with the whir of raphil motion, and the ra-ping noise of close-grainowl sugar. I was listening to the sound in my little den, after a sorrowful das, close upon zero, trying to warm up my stiffonerd limbs. Presently it grew lese then increased, then stoplued, then went on again, hut jerking and irregular, and then it watuel, and wanel, and wanel atway to silence.
"I) own (eme the captain: "J)octor, the ice has catught us; we are frozen up.

In dearihing the discovery of new territory, Dr. Kiane -it-: -
 $2!^{\prime}-1^{\prime \prime}$. I now -aw land to the north and west: it-horizon that of rolling erouncl, without hlufis, terminating at its northern mal. still further on to the north (ame at strip withont sisihe lame and then land aquin witle mountain top)s di*tant and rising abover the elourls. This last wets the lath when recerved from (aptain Do Haven the netme of Dr. © immell."

The following yeur (14.)1) this satne land was sen by (alotain Ponny: and named hey him Albert Land. The









demmation of the English athorition for injustion and partiality.

But to return to 1)r. Kians's journal. On Feptember 23), he pictures a fatal break-up) of the ires:-
"How thall I deseribe to gou this presure, ite fearfulnes and -atbimity! Nothing I have zeen or read of approtrhes it. The rofers of the ier and the heary swash of the orertomed hammock-table- are at this moment dinming in my







 at ereat matmakment wif fallen tables. It the same times.


 there varice with the direction of the fores. and the strengeth


 luanome perianty imbeddal after a little whike in cemmbling









"October 6, sumday. 12 Midnight. They report us adrift. Wind, a gate from the northward and westwark. An odd (ruse this! The Ameriean expertition fast in a lump) of iee about as hig as Wrashington Aquare, and driving, like a shanty on a raft, before a howling gale.
"November 2\%.
"Our daylight to-day was a mere name, three and a hatf hours of nedegre twilight. I was struck for the first time with the bleathed fatees of my mese-mates.
"serentr-seven days more without a sumise! twenty"-six before we reach the solstitial point of greatest darkness!
"Decomber 22, sunday. The solstice! the midnight of the year!
"December 2:3, Xontay: Perfect darkness! Drift umknown. Winds nearly at rest with the exereption of a little gatef froni the westward.
"Derember 2t, Tuesday. "Through utter darkness borne.'
"December 25. "Ye ('hristmas of yo Aretie cruisers!'
"()ur ('hristmas passed without a back of the goorl things. of this life. 'Goodies' we had sabore ; hut that hest of carthly Dhessings, the eomammion of koved sympathies, these Aretie crusers had not. It wats durions to ohserve the depressing influences of eath mann:s home thenghts, and absolutely *addening the effort of eateh man to impose upon his neighbor and be very boon amd jolly. We joked incersantly. but batly,
 sieck; and then we sang negro sengs, wanting only time, measure, and harmony, hitt abomeling in noise ; and after a (losing bumper to Mr. (irinench, aljourned with ereditalile jollity from table to the theatre."
"Never," writes Dr. Kime, "had I enjoved the tawstry quackery of the stage hatf so much.
"Ther "Bhate bevils': (iod hase ns ! but it wits very, fery






 lifothe pererivent it with mathotonie grater. Amette was an
























an indolence akin to apathy seems to be ereeping over us. I long for the light. Dear, dear sun, no wouder you are worshipped!"

It may be imagined with what rejoicing they weleomed the glowing disk when on February is they first beheld it. Three cheers went up, and Kane himsilf fired a satute. Though the dawn increated, the cold twilight still continued, and the perile of their situation were ever present. Memy times the conditions of the ice thereatened their destruction, Bat not until June is did its appalling dismution free them. In twenty minutes the ice, as far as the exe could reach, was a rate fied of moving floes. Five days later they emerged into the open water and made for Godhaven on the coast of (irembend.

Ifore they underwent repairs, and, undaunted he the recent perils, again turned their prows to the nowth. Skirting the conast of (iremiand as far as the 7 Bed dequece, they saitell to the westward and yoke an English whaling thip near the Dutch
 puhang their way through the accumbations of ice in Baffin bay: and here the gatlant litthe Preine . 1 thet, on her way latek to join the sexteching - thuadron, contimand in their company until the 3 d of Angust, when the heme oflit to the weet ward to trya mome sonthern patiage

 nine more monthe of winter threatening the enfeededed erew: the hate ! ) Waren determine to give up the unequal bat te. and Dr. Kime make thi- entry:-
". Duguat 19. Tuc- lay:
 vesterday: Our commoklore hat rewolved on an immentian return to the ["itent states."

## CHAPTER VIII

Scareh for sir John Franklin comtimetl. - Stedge journey of Captain Anstin's shradron. - Roturn of Prince Atbert under command of Captain Kemedy: - Bedlot.

The British searching squadron, including the Resolute, the Assistunce, the Piomere, and the Intrepid, white wintering in the vieinity of ('ornwallis latand and (iriffith Istand, hatd hedd freguent connmmication and plamed for exphoration journers on sealge to be matertaken as early as posible the following spring. Bofore the winter bereane tor sererere depots of provisions were established to be weed by the sledging partiex and the men trained in sedge dragging athe walking exomeses that ther might be in good physical condition When the time for a test of enduranee should arrive. I inder the direretion of (:aptain Justin, detailed phans were formed for camefal exploration of islamds and lands akong Pary stat. To ('aptain Pemms was antrusted the thorought scareh of Wralligeton (hamel.
 the west watel explorations, numbering one hambere and four
 to the nometheret ame of eriffith lstand, amel there the contiere


Tha extramelinate reende of the six "extemded" parties,

 Wmmanex. tratudled on moth shome, was absont sixty dats,





south shore, was absent fifty-eight days, covered five hundred and six miles, and discovered seventy miles of coast. The thirel sledge, Einterprise, under Lientenant Brown, travelled on south shore, was absent forty-four day- and covered three hundred and sesenty-five miles, including one hundred and fifty of previously unknown coast. The True Blue, making the most western point reached $10: 3^{\circ} 25^{\prime}$ west longitude, a point about halfway between Leopold Iskand and Point Turnagain on the American continent.
()f the three parties designed for the search of the north shore the first sledge Lady Fromblin, under command of Lisutenant Aldifeh, was absent sixty-two days, covered five humdred and fifty miles, and diseovered serenty miles of eobst. The second sledger, Persererance, under Lientenant M' ('lintock, was absent rishty days, and eovered seven humbert and sixty miles, forty miles of which was prestously undiscovered coast. The third sledge, Resotute, under surgeon Bradford, was absent eighty days, and covered six lomdred and sixty-nine miles, and diseovered one hundred and thiter-fite miles of coant.

To Lexument T「 (lintork was due the honour of reaching the farthert west, $7 t^{\circ} 3$ So $^{\prime}$ north latitude, and $114^{\circ} 20^{\prime}$ wost longitude. (on this journey X'elintock rearhed Burdman (ose Mrlville Istand, where Parry had encamped Juns 11, 1820. Traeco of his stay were found by X' ('lintock and later, upon cros-ing to Winter Hartor, on a large stone boulder he found the following inseription:-

Mis- Britannic Maju-ty*
ships I Inela aml (iriper.
Commatnded by
W. ('. I'ame and Mr. Liddon.

Wintered in the adjarent
Hátor 1-1920.
. T. Th-her. Auph

It wat (vident that no man hand vi-ited the - fot since that farly date, and a hare wat fombleme the rock oo tame that
 anded the fipure losi to the imeription ant prepared to roturn to the -hips, whim ! remelten July 4.







 - - 小l
 ton (hambel wree matar the commant of (aptain stmat.
 land and (amentir.
















incefiectual attempts to cuter smith and Jones sommes, reburned to England."

An undikely tale toht to old sir John Ross be the Eakimos near ('ape lork, to the effeet that in the winter of 1816 two Hips: were weeked in the ien off (eape Dutley Digere and afterwetrels rameatiod and burned by the natives, and the erew matsolered, detemined sir John to investigate the story as dosely at pexilate amt themroturn in the Felix to Englamel. Exen after his return home, he seems to have beem firm in the beliof that sir Whan lramklin and the erew of the Erebus and Torrore perished in Baffin Bat.

Having made a close inspection of this hay before his re-
 important comertions and valuahle whlitions were mate to the charts of the much frequented (asterm side of Baffin Bas, which hat- heen mote chowly obeerect and navigater by this than any former expentition: and man to my atiafaction, confiming the latitude and longitude of wery headiand I had the oqportuniterot hasine down in the year fors."




 (aptam Kemmedy, and acom! in contanand was Licutemant J. Bathot. as rome limenth officor motel for his adrenturont
 services. Smong the revt all of whom were picked men.
 on that firs hame capolltion which camm near peoving fatal to the emite patys. Another of the men had acompanionl Dr. Ram on hio firet joumery to Romber laty and a thind hand arompmind and dan lathantan in hiv inat joumer through the interion of America.

Diseouraging eonditions of ier and weather met the galtant erew in Prines Regent Inket. Ploughing a way through a tortuous course, the Prince flbert suceceding in reathing Elwin Bay only to find it ierelonad and impascable. Batty Bay and Pury Beath wore aho innosesible of areess, and now the eondtiton of the iee beroming so atarming, the getre up ath attempet at the west side of the intet and mate a hasty retreat to I'sut Bowers, where traces of Sir Edward Parry's party, wheh wintered there in 182.), were still diseernible.

To aroid wintering at so great at distance from the serne of the explorations panmed for the following spring, they re(rosed the strat and applowed the whore fore the parpose of making a landing. (ap)tain Kemorty, ateompaniod hy fond of the erew, cast off in at gutta-perehat boat and mate for

 ises. Iloping to put the Prince Illow in this sato harbomer, he at once hate ath attempt to rejoin his ship, hat, upen rearhine the shore, fomad to his consternation that, owing to the sudten mosing of the iere-patek, he conld ret rejoin here ame that she was being mertily carried down-streatm in -phe ot arofy effort of the ment on beated to stop here proseres. The shatows of night came upon theon raphidke, and the tempes-
 monltar - - $\begin{gathered}\text { m or heard. }\end{gathered}$

I most ancombortathe night followed their malneks antSuture. Their boat wat the only asalable thetere, and this


 mantime the elifio sume more, their alarm wat inereated hovere matamely fact that the -hip) hat eompletely dis-


mitigating cireunstanee in their sorry condition wat the knowledge that on the other side of the harbour at Whater Point, sir James Ross had loft a deposit of provisions ahout two years before. To this point their steps were now directed, and upon reathing the depot their hopes revived somewhat when they found the condition of the provisions exerellent. The house left hy sir James Ross was in fair condition, the flag and record were easily found, and, resigned to their fate, Kemedy and his eompanions determined to face the possibitity of pasing the long Aretic winter with the best posithle grater.
"It wats now," sitys Kemnedy, "the 10th of september. Winter was cridently fast setting in, and, from the distance the ship hat bern carried during that disastrous night, Whethere out to seat or down the inlet we fould net conjecture, - there was no hope of our being able to rejoin her, at least during the present season. There remained, therefore, no alternative but to make up our minds to pass the winter, if neecesary, where we were. The first ohjeed to be attended to Was the ereeting of some sort of shelter against the daily increasing inclemency of the weatler : and for the purpoer, the launch, left hy Sir James lows, was seleeterl. Her main mast was laid on supports at the bow and stem, ahout nine fere in hompt, and by epreatine two of her sails over this a very tolerable roo wat obtained. I stove was set up in the boely of the beat, with the pipes rumning through the roof: and wo were soon sitting by a comfortable fire, which, after our honge expesure to the wet and cold, we stood rery math in neral of."

It was the intention of ('aptain Kemnedy ter make sterden joumery to distant point- in the hope of sighting the Prince Albert or diseorering traces of the Embos and Terons. bot before the neressary proparations wore complated, some fix Werks after their sematation from the ship, a thot medood
through the stillnese and Liontenant Bedlot and seren of



 ()f this hatpy remmion, ('aptatn Kemedy writos: -
"It (am harelly be a mattor of surprise that the reation in the state of our feelinges eonserguent upen this anexpereded moenting with onn long-kot frimels, should have beren striking and immedisto, and in lieret proportion to onr former soticiturlo and duanedion.
"It was hon five werks "he the ehime" sine one disas-











 Tratone an! thair gatlat! draits.






 ,

[^1]strong sleigh. I mast was then ret, and a sail hoisted in the jolly-hoat, and atray we went before a spanking fair wind over the smooth ice of Leopold Harbore at a rate which "all the King's horses could hardly have been equal to. We had not gone half across the hay, howerer, before our sleigh, wholly umued to this style of locomotion, broke down, and it cost us the best part of the day, before we could repair our damage and start afresh."
"In our (encleavor to reach $\mathrm{NIr}^{\prime}$. Bellot"s encampment of the 16th," continues Mr. Kemerly, "we continued on foot longer than we should have done, and the consecfuenee was, that being overtaken be night hefore looking for camping ground, we found ourselves, lofore we were atrare or had time to reflect on the predicament we harl wot into, groping about, is the darkness, and with a heary shower of snow falling, for some hit of term firma, (for we had been all day upon the iee , where we eoukl phiteh the tent. Wrestumbled at lat, after makines our shins moie freety accuatinted than Was alogether agreahle with the sharp edges of the broken iore, inte a fine squate of doar beach, between some heary matsese of strambed ioes. Choosing out the softest part of a shelvine rock of limestone of wheh the heach was composed, Wo pitcher! the font, enereal the oilchoth, athel with some coals, Which we had hereght with whem Whater Point, boiled a grood kmte of tea for all hands.
"Sll these perparations were, howeerer, lout introdncetory (o) another, which we fomm a most dificult porblem indered namely. to contrive how we were all to pats the night in the single lithe tert we hat hrought with us. Wre all got in, cortainly and got the ketfle in the malde: loat as for lying (lown to-leaf) it wat utterly out of the puraiom. A Lomukn

 including our coloseal sarpenter, into at tent intemed for rix.

It last, after some deliberation, it was arranged that we -hould -it down six in a row, on ead side, which would leare use about three foet clear the otretch omer leg. Mr. Beflot, whon formed the thifecenth, beine the mest compact and stowwhle of the party, agreen to siduecze in monderneath them. stipulating only for at clear ionet square for his head alongerbe the tea-ketle. Being umperviled with a candle-tidk, exen if there had heem room to phate one anywhere, it was arranged that cath of 1 - shouhd hokd the candle in his hand for a quarter of an hour, and then pass it to his nedghor, and thus he the ainl of chur flickering tapere, therogg the thick steme of the beiling kette, we haud just emough light to prevent us putting our tea into mur neidhtor's mouth, instend of gur own.
"'Woll. bers. sugqests our aver jowial fir-t mate. Henry Ambern, "mow we are farly reated. I'm thinking, as we fean do nothing else, we hat heet make a night of it atain. What say your to atong. Diek?" Wherempon, mothing loath, Mr. Richamel Wehl atrike up, in the first styk of foremastle exomtion. 'sumanah, don't you ery for me." whel is. of
 "Mr. Wrod. your health and omos and gencral applatses. and buptrink of teatems, which Mr. Jolm smith, bleathe inability (t) -ing. undertaks to repheminh for the might.



 in simpe wh whin the hat been formally in-talled Paiker of 1he Rememitim.








Wre all know the rest. 'Kenneth, you monster, take that chumsy foot of yours off my stomach, will you"" cried out poor Mr. Bellot, smothered bencath the weight of four-andtwenty legs, upon which the carpenter, in his eagemess to comply probably drives his foot into Mr. Bellot's eye. And so, passing the song and the joke around, MIr. Bellot, oceasionally making a sudden desperate effort to get up, and sitting (lown again in deapari', — with a long 'blow' like a grampus, we make what Anderson calls 'a night of it.' No manaqement, howerer, can make our solitary eandle last beyond twelve o'clock, or thereabouts. Notwithstanding this extinguisher to the entertainments of the evening, Mr. Anterson, while some are (lozing and hob-at-nobbing in their dreans, may still be heard keeping it up with monabated epirit in the dark, wakening every sleeper now and then with some trementous chorus he has contrived to get up : mongry his friencls, for the 'Bay of Biscay", or some farourite (irconland molorly, with its inspiriting burthen of 'Cheeri ho. ah! chereri-lio!',

I warm welcome awaited the lost ones, when a few days later they reaches the ship.
"With our return to the verece," writes Mre. Kennedy, "anay be said to have elosed all our operations, as far as the ship was concerned, in the Aretice seas for the rear 18.s1. There remained now only to make our armangements for the resel pasing the next six or cight monthe where we were, and for preparing for our own winter journeys.

Preparations were completed hy January 万. 18.5.2, ant the morning of that day the men on show-shoes with doge drag ging the sedges, started off amid the cheere of their comendes amel the yelping and harking of the chogs.
"The first objecet of the journere" continues Mr. Kemmety "Was, of course, fo aserertain whether Fury Pemeh hat heon a retreating point to any of sir John Franklin'- party sine
it Was ribinod has Lientenant Robinson. of the Euterprise, in 1-19. A -reondary ohjeret, should four expectations in this re-peret mot berealizal. Was to form a first depot of provi--ione here, with the view of carrsing out a more extenderl
 -irathe at the same time to aterertain the state of the rearls.
 -now or ire. in the direetion in wheh we meant to go, before commencing any tran-port. on a large scale. betwoon the

 Wa- all we took with u- in athlition to our travelling ro-

 a comking annamatur, in all wombing from two lamdral to two hantreal ant fifty monnd-.








* Whe hat gut ámut hatiway mp one of thane vilhatmon











On the Sth, the distance to Fury Beach being very short, Mr. Fennedy decided to leave the sledge and two of the men, and press on with Mr. Bellot, and one man unencumbered.
"It may be imagined with what feelings," says Kennedy, "when we really had come upon it, we approached a spot round which so many hopes and anxicties hat so long centreck. Every object, distinguished by the moonlight in the distance, became animated to our imaginations, into the forms of our long-alsent countrymen; for had they been imprisoned anywhere in the Arctic Seas, within a reasonable distance of Fury Beach, here we felt assured some of them at least would have been now. But alas! for these fond hopes! How decobly, though perhaps unconsciously cherished, none of us probably suspected, till standing under the tattered corering of Somerset House, and gazing silently apon the solitude sround us, we felt as we turned to look mournfully on eath other's faces, that the last ray of hope an to this (herisherl imagination had fled from our hearts. It is perhaps neresesary for the vigorous presecution of any difficult object that fore the moment, some partieular eireumstance in the (hatin of operations by which it is to be effected, should seem to us so vitally important that the eye is blinded to all berond. The epot on which we now stood hat so long been assoriated in our minds with some clue to the discorery of the solution of the painful mysery which hung over the fate of Franklin, and hat so bong unconsciously perhaps coloured all our thought, that it was not without a panes, and a freting as if thes main purpose of our experlition had been chefedtol, that We found all our long-cherished anticipations, whatterel at a blow hy the seene which met our cyes. Thus my frientl and I stood paralyzed at the death-like solitnede aromel us. No wretige of the visit of a human being was here -ince Jiontemant Rolninson had examined the depot in 1515 . The
stores, still in the most perfect preservation, were precisely in the well-arranged condition, deseribed in the clear report of that cmergetie officer."
"Mis own notice of his visit," continues Mr. Kemnedy, "was deeply buried in the show, ame the index staff he hat placed over it was thrown down and gntwed hy the foses. Wearied with a long and fruitless examination wo took up
 the frame of which was etill standinge entire, but the eoveringhona to rags hy the wind, and ome end of the house nearly dilled with show. We lighted a fire on the stove which hat heated the emel oedupied hy Nir John lasest crew during the dreary winter of $1882-33$.
". Ifter pefreding ourshers with a wiam supper, and nodding for a fers hours over the fire, wo set out about 11 P. wh.
 of the follonsing mornins. ()ur return from this point to the Ahif), which we reathed atomit is p.u. of saturtay the 10th. Wat tot materel hy :my incident worlay of notioe.

 ammantion, which, white it served as a rearer for future

 fien wh the entes then we hat teeen able to make during the









reluctantly compelled, therefore, to pasis the next month in the ship, oceupied in the same general routine duties as those on which we had been during the carticr part of the winter.'.
('aptain Kemedy giver a vivid deseription of Aretie galew and the dangers of travel during at tempest. "About eight A.m. in the morning of the 13th February," he writes, "Afr. Bellot, the carbentere, Andrew Irvine, Henry Anderson (the first mate), and myself loft the ship, taking with us two cases of permmicann, and three tin jars, eatch containing two gallons of spirits of wine on a sledge, drawn by five Eskimo doge, for the purpose of depositing them a short distance on the way to Fury Beach, and returning in the exening. After proceoting for a few houre, and making very fair progress along at tolerably good path, a strong wind arowe. which be one p.ar. hand inereased to at perfect hurricene. so thickly charged with shew that, in attempting to croses a bay on our return, we low sight of the land by which our eouse homewarel hat been guided. In short, after wandering about for some time, seareely able to distinguish earh other at the distanee of a few paces, we formd that we tral faity lost our way. In this dilemmas. we set two of the five dows loone from the sledge, in the home that they womblart ate gride hetter than when drawing: hut thi* proved to lee a miotake. as theo would mot lease the others. It lat. howered. Wher all sot oli together, taking the slower with them and learing us 10 our fate. So we afterwarls fomme ther reatedel the ship without any difficulty. and. as may readily be supposect. pout wery one on bourd in at perfect fever of terror and anxiety : th to what hand beeme of us. In the meantime. we had gene on flomatering over hroken iese until we had onee mone stambled on the land, but where or what the land wat we
 to know we were not mardimas (xat the Inlet or out to - -an in
which case we would hate marched on and in all probability nower returnert: hat in other requecte we hat rather lost than \&atned loge getting on tura firmat. With ath atmorphere
 there wers he kereping the shore and to go on one side or the
 (ither (on the Inlet ore on the land) without hageing dowe up) atml into at brak-mock line of otranded fragments of ice. which in hacatelt the dineretion of the beach.
". Along thi- fommidable math we flomotered on - now

 loftom, ho the whilling mhles of the wind: now walling.











 ". . :








arected on shore in the beginning of the winter. A consultation was now hed whether we should cut our way into it and pass the night here, 'aceoutred as we were,' or make for the ship, which we now knew eould not be far off. Our decision was for the latter, and the only question now wat, how to steer for the ressel. This, too, was deciled upon at lact, by each of the party pointing in turn, in the direction in which he thought the vesel lay, and then taking the mean of the bearings. To prevent our soarating in the chrift (for some of the party had by this time wot so benumbed with cokl, as to be unable to use their hands to dear their ereslide, and had thes becone literally blind with the aceumuktion of the snow on their eves), it was agreed that at eertain intervals: we -houkd eall and answer each other's names. and that those whose eres hat suffered leated shomk take the others in tow. In this order, we proceeded for the vessed, and fortunatry hy the guidance of a solitary star, that coukd be faintly distinguishod through the drift, got newr enough to the ship to hear the wind whistling throngh the shrousts and wore thas enterl, rather ? se the ear than by the efe, to her position, and soon aftersards found ourselse on bourd. where we were recerived one more as those from the deal.
"These short journers, howerer arduou*, in which catches Were establi-hed for future use, were only preliminary skir-mi-hes 10 the "Erand journey" phanned hy (aptain Kenmerly with much forethought athel in premaration for which dathad been ocerpped in making -uitabhe apparcl. trappings. and shederes. It wate expereted that the journey wounh take at least there months. The particular direetion our route
 very much hy the nature of the rimedmstances that mioht

 point of ekeparture of 'ir Johm Franklin for the unknown

 attardme.

There were fourteen of the erew disposathe in the -hip," contimues ('aptain homerely, "of whom four picked nem were to get witla Ifr. Bollot and matoll to (atoe Valker. Whate the
 Beath, which was to form the starting-ponint of the journer. l'articesent out on difierent oceations during the lat two

 alreaty mentioned, had heren deposited in Januatry a few mite


 Galions of spirite of winc were taken as a substitute for fuct.
 this late us till the epring. When. les the phan wroperat atoptinge of travolling during tho nioht instatel of the day,
 to di-pe now with the wee of fact athogether.




 the than: the ot!







hand with affectionate warmth, 'I cannot accompany you, and I camot let all these men witness my emotion: let me part with you here. and may (iod grant that we meret in life and health. after the long and hazardous journer you are about to undertake. Though this veteran hero saw much hardship and hazard in store before us. he would have seen none whatever had he been allowed to acempany us, but I coutd not for a moment entertain the ilea of employing him on a journey: when there were so many younger men all emmulot to be engaged on it. and more particularly when lis services on hoard ship were so indispensable ; and, hy his kindly consenting to remain, 1 was relieved of all ansiety as requectent the Prince Albert.
"Reaching the south point of Batty Bay, with our friendly (wert, our two parties onere more separated with many kindly and tourding farcordls and then, with there hearty cheers, diverging in our different routes, we were soon lost to each other in the mist and snow."

The fury of the equinoctial gales greatly imperted the atvance of the party; frequently detaining them for several dats at a time.

Flewles, mocrasins, and show-shoe were greatly damatod under the hard comblitions of travel, and it was found neceraty when the whele party had asermblat at Fury Beach tw send baek to the ship for alditional -umplies. Ther also mate now of the execllent stores found at the Fury Beach which hat been left there thirty year- before. It was decited, afte: careful cableutation. that wix men could carly parations for the properat former of there month: duration: that fourtern men dombld travel as fate as Berntford Bays. at which peint (ight would return to the -hip, the rem maning dix to procewl. (arrving with them ath povisoms and neesesarics for the remainder of the trip).

and tackling, might heretimated at about two thousand pounds. "The whale was hathed down." writes hermedy, " to the :mailcot pusible eompare on four flat-bot tomed Indian sleighs, of wheh our five B-kimo dow areisted by two men to each Heroft, took two, while the rest of the men took the other two."

The day of their stem prosed mild and plearant, and at first the travelling war gooct, the ice be ing sufficiontly smooth to make caty and rapid progres. But awh geod fortume did not remain whith them long, and the inevitable gales made travelling most difficult and painful. The usual enow huts were ereetend at nieht, zunder which thery took surh comfort as their shote houre of rest afforded them. Frosthites caused them mum sulfering, and 10 protect their faces they resorted to curious expertionts.
"For the eres," write Komerty, "we hat gocoles of glast of wire-waze, of crape, of of plain wool with a slit in the econtere in the maner of E-kimes. For the faere, some had cloth-ma-k-, with neat lithe erevices for the menth, noer, und eves: othere were mufley uf) in the ordinary chin-ctoth, am!, for that most treuldexome of the facial
 (arpenter at their head, had gutta-perefta nowe lined with delimete off flamel." Thomah athimat in theory these renne caxpt the chinerthothe and grugete.

On the bith of Smal they reached Brontored Bays, and the fatigu party herem their retrograd jommery to the -hip). It





 has. and inlumh.
()n April 17 the thermometer stood at plus 22, " a temperature," writes Kemedy, "which, to our sensations, was absolutely oppressive. One of our dogs, through over-exertion, fainted in his traces, and lay gasping for breath for a quarter of an hour ; but after recovering, went on as merrily as ever. These faithfut ereatures were perfect treasures to us throughout the journey. They were all suffering, like ourselves, from snow-blindhess, but did not in the least relax their exertions on this account. The Eskimo's dog is, in fact, the camel of these northern desert; ; the faithful attendant of man, and the sharer of his labors and privations:."

The flat country over which ther were travelling, and the chose proximity of the Magnetie Pole, which rendered their compass of litfle use, made it particularly difficult to keep a westerly course. It was hoped that this direetion would lead to a sea which wouk combuct them northward to ('ape Wafker. From this point they hoped to aseertain if there was any westward chamel or strait through which Sir John Franklin might have penctrated. After marching for thirteen days, and reaching the hundredth degree of west longitude, without coming to a sea, Femerly decided to turn northward to Cape Walker.
"Being now satisfied," he mrites, "that Sir James Ross had, in his land journey along the westem shore of North fomersed, in 1819, mistaken the very low level land over which we had been travelling for a wetern sea, I folt no longer justifed in continuing a western course. Whaterer pasage might exist to the sombthest of (ape Walker, I folt assured mast now be on our merth. I detomnimed therefore, from this time forwarl, to firect sur cours northward, until we should fall upon some chamel which we knew must exist not fat from us, in this direetion, by which Franklin might have pasech to the southerst."

The ehamel for which ther were in search conth not be fomme. Botisterons geter till pursued them, and the ment heman to thow the effereto of exhemation abt experime in thes form of the dreaded soburse Thes, therefore turned east ward again and, reaching (ape Burnery they mate next for ( anke W:alker, whell first koment in the distance the fthe of May. Their dixappeintment was great at finding no trace of Franklin': expedition.
"Wearied athe dispirited herond deseription," writes ('aptain Kimnerly. "at the fruithes result of our long and anxious labours. we returned to our encompment. guided through a heary shon-storm hy the report of grans, wheh I had diereted to he fired every fifteren mimutes. to make preparation for our return homeward. This coth be affeeted
 -rt, a di-tance in a straight fine of not mere than six days
 and thence to the -hap," The katter rente wate chasern, themeh the di-tance was nearly domble that of the othere and after
 hamatrat mike, they at hast reathent the ship) May Bot. I


 a fire whon ther hatacol to rownit."

Preparaton- for the pethrn to Enuland were fow mon-









## CHAPTER IN

Search for Sir John Franklin continued: Sir Edward Belcher's -rpurdron. - Ingleficld. -- Rates journer. - Discovery of NorthWest Pasage by Captain I'Clure. - I) eath of Bellot.

Isterest in the mysterious fate of sir John Franklin was in no wise lesecned by the unexpected return to England of the searehing spuadron in 18.31. Dr. Rates land journey of over eight hundred miles, including a thorough examination of the rast anel north coast of Vietoria Lancl, had thrown no new light on the tragie situation. The American coast had now been diligently examined from the entrance of Beltringestrait to the head of Hmbon Bay, and it was generally helieved that Franklin had never reached so low a latitude.
(On April 25, 1852, a thoroughly equipped sfuadron of fiveresols - - the Aswistance the Resolute, and the North Stor, and two steamers, the Pioneer and Intrepird - sailed from Enekand under the command of sir Edward Beleher. The Assistonce and Pioneer were to sail up Wrellington (hannel. The Rewolute and Intropirl, undere command of C'aptain Kellett, were to procered to Melvile I-land, there to deposit provisions for the wise of ('aptain ('ollinson and ('ommander M' ('lure, should the eucoered in making the paseage from Bohring Stait, for which, at we havereren, they had set sail in Jann:Iry, 14.80. The Vorth star wat to remain at Beerdey I-kand as at drpent stome ship).

By the with of July the equautron wat in Baffin Bay, aceompaniod hy a fled of whaters. The ier eondtions proverd
 athd detained for a times. While the reot of the fleed, aceom-
panied hy the whalers，streteded in a hong train of some three quartors of a mile in length and slowly pushed their way through a namon lane of watere．

The Amerieran whaler，Mefellan，hat the lead；the North Star of the English spatutron followed the MeLellan．The


 Weather conditions Were most facome able； 110 amxiely was felt for the safetyof the vesiols， in spite of the fate that the lane of water gradually closed and pre－ veriterl the ships frem atrancing or retreatinemutil．fuly 7，when the report Wats marle that the IV collun was nipped in tha ioe ambl her rew mak－ ing reaty to atran－ dom her．（＇arpon－ ters，mater ometers

 proーが家。






prevent further loot, and working parties proceeded to take inventory of her stores, and remove them to a safe clistance. In a day or two the McLellan had sumk to the water's odge, and for the safety of the rest of the fleet, a charge or two of powder put her out of the way.

The squadron reached its headquarters at Beechey Island, August 10. Wellington Channel and Barrow Strait were found free from ice, and on the 14 th, Sir Edward Bekeher, with the Pioneer and $A$ sisistance, proceeded up the Chamel. The next day Captain Fellett, with the Resolute and Intrepid, sailed in open Water for Melville Istand.

While sir Elward Beleher's squadron was making its arduous passage to Becehey Island, Lady Franklin had refitted the serew-steamer $I$ satid and placed it under Commander Inghefickl, R. N., with instructions to investigate the rumour brought home by sir John Ross to the effeet that Franklin and his erew had been murdered by natives at Wolstenhohme soumd.
sotting sail from Fngland. July 6, 18:2, the little $I$ *abel made for the northern shores of Baffin Bay, reached a higher latitude up Whale Sound than any previous vescel, and later purhed through smith Somel as far as latitude $78^{\circ} 28^{\prime} 21^{\prime \prime}$ X.. without discoreing ant oppo-ing land. (aptain Thelefield discovered that senith sound, generally supposed to be barmy: wat at least thitrosix mifes acrose, expanting considerahly to the northwark. The shore seemerl comparatively free from show, and the rocks appesped of their natural colour.

Ie was met in considerable quantities, and thoush Captain Thelefeld was ambitions to steam thromgh, a fortumate gale anow wheh blew with such violenere that the $I$ ealul was fored betek, thus sarine her in all probability from a dreary winter in the ies.

By the Th of september, the I sabel sighted the North Star at Beechey Lsland.
"When we were near enough to see from our crow"s-nest
 twelve pounders to be fired, and the people who were working on shore were greatly puzzed at hearing such a sound, as they believed that nothing haman but their own party could be withim hundreds of mites of them."
("aptain Inglefiekl soon "waited upon" ('aptain Pullen, and the letters for sir Edward Bekeher"s squatron boought out hy the Isabel were placed upon the Jonth store. I few hours later the I sefbel put off to sea, carrying letters from officers: and erew of the North stetr to relatives and friends in England.

By the 12th the Imbel stood off Nount Posersion, be the 1 tth (ape Bowern, and here (aptain Ingldfiedel lanted to look for traces and orect a cairn: nothing wate diseotered but the bold footprint of a huge heatr and the tiny trateks of an Aretie fox. The 23d foumd them in Datris strat. Itere a trerifie gale was encountered, wheh lasted fone daysand "ateompaniexl," writes ("aptain Inglefield, "with the heaviest


As soon as the storm ahated. ther put for the nearest port
 *ottememt off Humbe I-lands. a little south of Whatefish Itamets. The exoremor catme on beated to ser what wat Wented, and, the next lay hemg sumblay the con were given shome leato, and a wemeral day of ros was migeote





 कhambor. : many lakimm- acombleonveniontly stand.

punch coukd be quickly mate ; and several officers and crew joining the party, hy their assistance, earh of the Ekimo ladies was first supplied with a glass full of the beverage, and afterward the gentlemen, when I made them understand that they were to give three cheers for the King of Denmark, which was done with a vigour and gootheartedness, that made the wooken waths echo again.
"I harl prepared another treat for them, which I am quite sure was to many the most agreeable of the two. My coxswain came in to tell me when all was ready, and then I begged the governor would tell the party to go outside where I had something to show them.
"When all were arsenbled, the booming of one of our guns, which by signal was fired from the vessel, not a little alarmed some of the most timid, and their fear was not much allayed, when. from under their very noses, a shower of rockets flew into mid-air, with a whirl that startled some of the more ancernt -ages amongst them, though when no damage was found to acerue to any of the parts, the shouts of joy orerpowered the noise of the rockets. The blue lights and white light-, which wore burnt to enliven the performance, were oh jeerts of great curionity, and I could see some enguiring faces, caserly watehmg sur mowements, as the port-fires were placed to imnite them."
"Dancing was afterwards commeneerl." continues Captain Inglefiedel. "and feeling that it was my duty to lead off with the governor's wite. who was an Ekkino. I beqged the honour of her hand. for a lanere in the ber Ekimo of whele I wets materer, and to the serapinge of a divabled firkelle bound renu! with twine ant! splints. I launched into the mosteries of an E-kimo quatrille. Which, hat for the strenuous exer-tion- of my partner. to keep) me right. I Should certainly have $\therefore$ at into uttere confusion.
"It was eompored of a choine des dames and a rerl. erom-
plex to a wonderinl degrere and axhansting to a frightful extent : and reet it afperated to be the determination of the whole patty th conthate at this ome figure till tired hature -mak.

以(a) or: hat at lati I hat the gratification of observing an chaply larly opponite leximning to faltrex. and out of compliment to here I presunc thif dance was temanaterl.
"The laskimon -reme to think it is imposerble to be tose





 with whon I mow alternately figured instruetine me in the



















By the 7 thl of October the Iscubel was ready for sea, but encountered terrific gates. L'pon the advice of the icemawimes, Captain Inglefield determined to return to England in spite of a stronge desire to winter and complete the search of the west rowt of Baffin Bay by sledge journers in the spring and the surver of Davis strait from (ape Walwingham south, as far as Nowfoundland. However, a continuance of hand weather made such a course impracticable, and by November 4 the Iserbel anchored at stromeses: hes the 10 th of November the made Peterhead by way of Pentand Firth.
"Boxiteo perietrating one humdreal and forty miles further than previous mevigators, and finding an open - A: stretching northwards, from Baffin's Ray, to at heant the katituke of $80^{\circ}$, ('aptain Inglefodd dianerrevel an atrait in about 7 : $!^{\circ}$, which he namowl Murrhison strait, am! which ho supposient to form the nomt.-


Bu perme is im of The Illowemtat Lomaton Nins.


 Lif approach to Jonce soumd, all contributed intorestimes
data to gengraphical knowleder, but though the natives with whon he mee were carefully interrogated, no light was thenew on the fate of sir John Franklin or his neme and the utter faldity of the stome told he sir dohn Rase interpareter wat -atiofactorily wahliathed.

Early in the sear 1-3, there expeditions were fittent ont,
 and to contimue the -aderth for cir John Franklin.

 mand of Mr. Kimmenty ont with imatrations to eat for


 Barrew -rait in conamaml of the Phunis and Lonly Formeltio. for the zMrpure of reatumeng sir Elward Bether.




 in the first (imimell axpeditum.



 - bu"








Ocean, having thus pascet through the far-famed, much-sought-after, and, at length, discovered Northwest Passage.

It will beremembered that ('aptains ('ollinson and M'C 'lure sailed for Behring strait in 1850, through which, in company with the Ploner and /Icrald, they endeavoured to pass.
'The Imestigntor', ('aptain M'('lure, was last seren on dugust 4, 1s, 0 , hearing gallantly into the heart of the "Polar Pack."
( 'aptain Collinson, in the Enterprive, had concluded to winter at Hongkong, and not until May, 1sion, did he return to Behring strait, which he sucereded in entering. In the meantime, the Iferold had returned to England, while the Ploner remained some time at Port Clarenee as a reserve for the reserle to fall hate upon.
()n parting company with the Herald in Behring Strait in
 frest bresze. For sereral days the Imestiguter struggled with the ice patck. now boring through the matses, or winding among the lanes of open water. By the 7 th of August they
 from the "erow's nest."
"The wincl." writer M' ('lure, "almest immetiately failing, the boat- were all manned, and towing commeneed amid songs and choces, which continued with unatoated goorl hamour for six homer. When this laborions work was hrought to a sueeresful temination. Being in perfertly elear water in smith's Bay, a light air epringing up, we worked to the eatwarl. At two A.M, of the sth, tering off Point D) exer, sent Mr. (ourt (rocond matre) on shore to (reet at cairn, and hary a notiee of our having paserd. Ipon landing. We were met by there natives. who at first were vory timid: hat upon exchanging -ighs of friend-hip. Which consisted of rating the amse three times oxer the head, they approardeed the boat, athe after the pheastant walutation of mbhing noses, berame ver commumicative, when, hy the asistanee of our valuable interperere

Mr. Miertechinge, we formed the triber comstand of tem tents
 tains, that they hal arrisel only the day previon-ly: and
 with the law-ian Fier (ompany. The womine before there



 beat. to wath! Ther ath gate the phating intellignee that we -homb fiml anern watere ahone the mont from ahout
 ioe sery redthat cante int. or mever heft the land farther than

 bur-uit of seak, farther than om dry's jomene th the main





 from what I haw -and of the park. I sma thanat on think
 sitnmone."




-, "




to retrace their cource, but by the 21 st of August they had paseal the mouth of the Nackenzie River, and marle the P'elly Istands.

Epon reaching Warren Point, natives were seen on shore, and ('aptain M'Clure, desiring, if possible, to send derpatches hy them to the Ifutson Bay Company's posts on the Mackenzie, the boats were ordered out.

It was found that these Eskimos hat no communication with the Iackenzie, being at war with the neighbouring tribes, and having had several skmishes with the Indians of that gutarter. I chief of the tribe harl a flat brazs button suspended from his ear, and in explanation of where he got it, hereppliel: "It had been takern from a white man, who had been killed by one of his tribe. The white man belonged to a party which has handed at Point Wiuren, and there built a house; nobody knew how they came, as they had no boat, bat they went inland. The man killed had strated from the barty, amd he (the ehief) and his son hat horied him upon a hill at a little di-tance." It eoukd not bee areertained just
 trienl to inserstigate the mattere, only two very old woorem hats wore fomel, and no grate of the white menn wat disoovered.

Natives were comstantly encomentere as the Imestignton prowereded, and thongh they somenel at first hostike and
 friently and gratefilly aceepted the varions present-hestowed apon them.

"Thu weathers: wheh hatel heorn equally: acosompanion hy at thire foge during the early part of the dety chamed towathe




distinguish sereral persons moving ahout, dresed in white shirts, :mbl observed some white tents in the hollow of the cliff, I eretainly hat every reaton to imagine they were aborty of Europeans in distrese, eonvined that mo traterlers would remain for so leng a period as we hed remarked the shoke. For their pleasure, therofore, to satisfy myerli, equally as otheres, I determine to send a boat on shore at it was now ealm. The first whate-boat. $\quad$ moler Lieatemant ('reswedl, with br. Armstrong, and Xr. Mierterhing, wate dequatehed to examine into the catase, who, on their return, reported the smoke to emanate frem fifteen small momels of voleanio apperatame oreapying a epace of about fifty fathe the plate stromely inpmexnated with sulphus. the lower momols heing almut thirty feet ahose the seatlevel. the highest about filter feret. The land in it. viemity was bhe elay. much intersected with ratrines and deep watereourses, varying in devation from theres hamdred to five limudered feret. The matrk of at reinderer
 momols. Notioe of our having lamed wede left, wheld would not lome remain, at the elilf is evilembly emmbling atay. Thas the mystery of the white shirts and temte was mot satiafatomber explamed.




 wair the first whip that hatal -atided in theore wator-






coast, as it was more free of ice than that on the west. Later it was found that the isfand was one whose extreme northeatern shore had been faintly seen by Parry in 1520 and given bev him the name of "Banks' Land."
"We observed," writes Captain M'Clure, "ntunerous traces of reindeer, hare, and wikd-fow ; mose and divers specise of wikd-flowers were also in great aboundance ; many sperimens of them, equally as of the object of interest to the naturalist. were selected with much care by Dr. Ammstrong. From an eloration obtained of ahout five handred feret. We had a fine view towards the interior, which wets wedl elothed with mosi, giving a vertant appearance to the ranges of hills that rose gratually to between two thousiand and three thousand fect, intervected with ravines, which must conver a copions supply of water to a large lake situated in the eontre of a wide plain, about fiftern miles distant: the sight to seat warl was farourable in the extreme: open water, with a very :mall duantity of ice, for the distance of full forty miles towards the east, insured good prowere in that direction. The weather beroming fogore our leat wat the only gruile until ten - ..ar. of the ! th : it then cleareal for at sort times. When lathl was ohereved to the eastward, abont fifteen miles distant, externting to, the nothward as fat et the ero conkl reach.
"The mountains in the interior ate lofty and - - 1 ow-covererl, whike the low eromad is fuite free sereral very remarkahle peaks wore discernible apparently of rokemic origin. This discovery wat named Princo Shber": Land. The wind beroming fair, and the weather cheariner, all the stadding salls Wrere set. with the hope of reachang Barrow strait, from Whath we were now distant about seventy miles. The watere W:t tolorahly dear in that hireotion, atthongh much iow was
 in motion. ath while endeavoring to ran betwoen two foxe. at the rate of four knots, they (losen so rapidly, one mpon
either heam, that our way wa-instantly stopped, and the resrel lifted eonsidura!,ly; in this position wo were rotaned a
 ()her atsane was of -hart damation, ath at two pas. the wind suddenly shifted to the motheete and hesan of fre-hern: the
 of atored rum, herame soon so thickly sturlded with floses, that ahont foar bear. there was rearedy sufficent to keep the
 two A.s. of the 1 thi. When we were bect."

Fronn mon on, batiling winds and impenotralde flow mate proweres atmont imboreible The total destruetion of the
 as-aiked then in the marmow strat akong whech thes were - mblatsonmise to proered.
 int the vicinity : one flat wix mike in tength, patered at the






 aftorwarl- mat! !f."









(Tlinging: with the "tenacity of a ho:om-frient" to the icefloe to which they were secured, "it convered us," continues XI'Clure, " 10 our farthest northeast position, latitude $73^{\circ}$ $\dddot{I}^{\prime}$ north, kongitule $117^{\circ} 10^{\prime}$ we-t, back round the Princess Poval Ithande, putsen the largent within fiee hunded yards to latitude $72^{\circ} 42^{\prime}$ north. longitude $118^{\circ} 42^{\prime}$ wost, returning atong the coast of Prince Albert's Land, and finally freezing in at latitude $7^{2}$, $50^{\prime}$ nor th, longitule $117^{\circ} .55^{\prime}$ wert, upon the 30th of september. during which circummatigation we reereived many arere nips, and were ferquently driven close to the shore, from which our teep frimel kept us off. To awoid sparation, we hadl serered with two stream-rables, one chain, two sis, and two fise hawsers. A- our expored position erenderea every precaution necesarys, we got upon deck twelve inonthe" provisions, with tents, warm chothing, cte., and brewel to cach peran a pair of carpect-hoots and a Whank-thage oo that in the event of any energency rembering it imperative to quit the verech. we mioht mot la destitute.
 that lifteel the row-al a foot, and heertai her $t^{2}$ to port, in con--rpume of : haree tongue getting beneath her, in whim posi-

 wre the ine to the Ahros of Barrow strait, whith there fomed comenernd with the strait in which there wintered, then (-tab)lishing the fort of a morthwest passage

The fondene umbertaken on the momine of ()etoter 21 ,

 setn the Prinew lional Iflo and knowing the perition of the

 upon their armal at the ship. Xiwht overteh him when



 or of attractine the attemtion of erne one on boatel the veresel lsy firing my fowling-jumes. [nfortumatoly. I hawl no wher atmamation than what it wat kewled with: fors I had faneded. When I keft the - kenge, that 1 wo dharese in the eran would bee al! I Shombl ha likely to reature. Attar wating for an hour
 a bhe light. avidently harnt in the direction in which I hant
 hat mef fire wat mandarombl. and, hoth batrets being dischatreat. I wat mathe to reperat the sigital. My only heper


 mo pmathity of my hating any other -heltor for the niwht











 thew:





shiming in all the splendor of an Aretie night. Although unable to see the islands or the ship, I wandered about the iere in different directions until daylight, when, to my great mortifieation, I found I had passed the ship fully the distance of four miles."

Skedge journers along the shores of Baring Istand and Prinee Albert Land were undertaken, hat ne trace of Frankin or his party was discovered. Traces of Eskimos were found, but only one party met with; however, decr, minsk-oxen, and bears were encounteref. A bear was killed, and, when opened, its, , tomach was foum to eontain raisins, tobaceo, pork, and adhesive plaster! This extroordinary medley led ('aptain XI' ('lure to the conclusion that the Enterprise was in the viemity, and a diligent seareh was instituted, beit the only result Wat the discovery of a preservod meat canistere, whicht confained similar artieles, probably the same from which the bear hat ototained his umusual meal. By the 13th of Jume, 18.51, all the sledge parties having returneel in safety to the ship, everything was made ready to set sail the moment the huge barriers of iere should permit.
"Ther first inclication of open water." writes Captain
 tance along the shore of Prince . Alhert's Land, about a mile in width: the ioe in every direction is so mathelly deconting, bring much aderelerated hy sleet and rain, with the themontoter standing at $15^{\circ}$, that, by the 1tth, that which for the last fow deys had beren slightly in motion, with large spares of water intervening, suddenly and noforesery operned atround the vessed, leaving her in a peond of forty yarals: hat recing no posithility of exteting without its limits. we wate (efompeded
 amol, with the whole of the pack. eratuaty drite to the sonthward, temame the Primeres lowat Istamels. which we
























 A









then turning sharp to north-cast. It had a harrice of iee extending arose, which prevented any commmencation. Whishing (o keep) hetween the northermmost of these iskands and the maimband, to a woid the pack, which wats very near it, we narrowly escaped getting on whore, as a reef extended from the katter (o) within half a mite of the island. Fortumately, the wind being light, wo rounded to with all the studdingsaths sot, and lot wo the anchere in two and a half fathoms, having about four inchos to spare under the keel, and warped into four, white N1. ('ourt wats sent to find a chamel in wherh he suceereded, carreing there fathoms, through which we ran for one mile, and then continued our course in cight, having from three fo five miles botwoen the iore and land. At 8 1.s., we neared two other istands, the ier resting upon the wetermmost, upon which the preseure mast have heren exexsion, as harge masce were fored netrly over its summit, Which wats upwarls of forty feet. betweren these athel the satin we man through a dhannel in from nime to fifteed fathoms, when atn immediate amd marked chatne wook place in the genceral appearance and formation of the land: it became high, precipitors, sterite, and rugere ; intersected with derp ravines amb water comses, having six-fivo fathoms at a quarter of a mile, aind fiftern fathoms one hamelred yatek from the (litfs. whith proved exoerdingly forthato as the whote pack, which had apparently moly just hroken from the shore was within hetf at mite, and, in m:ay places. so close to it, that to atoid getting berv, we bad mearly to toneh the lamd; indered,
 ny, and polese nesed to keop the vessed off the gromated ion ; Which extents ald atomg this roast : nor rould wo romel to. fearfal of eatrone the jih-boom away acains the diffs.
 Weatem extreme I hate (atled Priner Alfred, in homentre of his Royal Ilighness. (on the morning of the 20th, our fur.
ther progrese wa- impeded he finding the ice rosting upon a peint. Which lommed a tight indentation of shore. and was the onty plate where water oond hererot. To presernt beme (arricel awsy with the park, whirh wat filling up its - -pace,
 ioe eronmated in twelve fathoms ereontr-four yards from the beath the onty protection agamet the tremededens Pokar ier -ettine a knot per home to the eastwat hefore a
 eritimal positen, ! a laree flose striking the piece wo were fart to, and cancing it to weriltato ex considerably, that a
 reach -ix fere: hat. he great attention to the anchore and
 wat comtinued -rveral minates. trominating hy the flow



















beneath the bottom, and sustaining a heary strain against the stern and redder' : the latter wats much damaged, but to un-hip it at present was imposible. It 1 p.s... the presure eated, from the ice becoming stationary, when it Wat unliung and laid upon a large floe piece, where, by \& p.ar., owing to the activity of Mr. Ford, the carpenter, who is always reaty to moet any emergenerg it was repaired, just as the ice becan again to be in motion: but as the tackles were hookerl, it wat rum up to the davits without further "amage." ('ontinuing his exciting narrative, Captain IIClure writs: -
" We were now setting fast upon another large piece of a breken floe, grounded in nine fathoms upon the deroris formed at the month of a laree river. Feeling confident that. Should wr be eaught between this and what we were fant to, the -hip) must ineritably an to pieees, and yet being atware that to cast off would eertainly sent us on the beach from which we were never distant (ighty gards), upon whish the -maller ior wat hurled as it came in eontact with these gromuded hatsos. I sent Johm Kerre (gunner's mate) under
 it- ds-traction hy hating: he coukl not. however, find a -ufficient share of water to sink the charge, but remarking
 which sol far - -ucomeded, that it slightly fractured it in threes phaces, which. at thar moment wats scaterely observahle, from the heary por-ane it wat su-taminge By this time the
 in ansones - -

 of the -hip) to har. a heary grime which -laok exory mat.



Would bre hut of short duration. At this moment, the streancatho was earmed away, and sereral amehore drew: thanking that wo hatl now sufferently risked the reserl, order- were given to lot go the warls, and with that order I hatd matle up) my mind that in atem mimater the workd be on the
 prose an atylunt for the winter, and peribly he acain wot afloat; while, shoum she be ermshed betweren there harge
 Which would be rertain destruetion to all: hat hefore the

 into throe piocers and it floated onwarl with the matso. ond





















firmly frozen in, in what has since proved a most safe and execllent harbor, which, in grateful remembrance of the many perils that we had coseaped during the passage of that terrible Podar seat, we have named the "Bay of Merey"; thas finally temminating this short season's operations, having been actually only five entire days under way." From now on "yery preparation was made to spend the winter as comfortally as conditions would admit."
"As there appeared much game in the vicinity." writes ( aptain II' 'hure, "and the weatheer continued mikd, shooting parties were establisherl in different directions between the !ath and e23! of ()etoler: so that, with what was killed from the ship, our supply of fresh provisions at the commencement of the winter consixted of nine deer, fifty-three hares, and forte-four ptamigan, all in fine condition, the former hatring from two to three inchere of fat."
"In consequenee of our faroed position," he eontinues, "the ereww were emahded to ramble over the hills :hmost daily in cuent of gane, and their exertions happily supplied a fresh meal of venison three times a fortuight, with the exeeption of atoout these weoks in Jomary, when it was too dark for thooting. The omall gane, such as ptamigan and hares, heing seatere were allowed to he retained be the efertemen as privato poperty. This heathy and exhiamang exercise kent us all wedl amb in excellent spivits during another todines winter, as that on the het of Aprit we hat upward of athomsand pomats of remison hanging at the yard-arme."

The exciting expertence of sergent Woon, a marine. white out hanting, is interesting. Whike pursuing a woumded doer. he rathenty :mbl unexpectedty met : comple of muskbuth, which lie stumended in wounding. Lhfuriated with pain. one of the maskemen rushed toward him. Hatring expmenten! his shot. Whe sererent firend his "wom" at the animat, but, this having litule or no effect, the bull, though
weakened from the lose of hood, when within six feet, put his head to the ground as if for a final rush. With quick atetion the sergeant fied his iron ramored, which, entering behind the animal's left shoukder, paseed through the heart and out at the right flank, dropping him lifeless.
()n another oceasion, the mexerner of mincl of serereant Woon saved the tife of a companion, a coloured man and member of the erew, It was in Jamuary and hitterly cohl; the eokoused man had been out hunting and lost his way. He began to fancy himedf frezen to death, and from sheer terror lost his wits. The sergeant met him, lut could not induce the boor follow to fotlow him. 'The coloured man stored dazal and shisering, and finatly fell in a fit. Wationg until he wat somewhat revised, the sererent either earried or robled him down hills or hammocks for fon long hour', until he got hime within a mile of the shipe. The mergetant wats by this time thoroughly exhathent ant tried to promathe the negre to walk, hat the peor demented areat were onty hegeed to be "let atone to die." Being mathe to persiate hime, the only thing left was to place hime in at here of deep) show, and thon, with ath his rematining stomoth, the sergeant. hastment to the ship for assistance. Rotuming as soon at





 fire:





painting by our lowerecock artists, exhibiting the ship in her peribus positions during the tramsit of the polar sea, and divers other subjects; but the grand features of the day were the enormous phum pudtings some weighing fwenty-six pounds), haunches of venison, hares roasted, and solup made of the same, with ptarmigan and sea pies. Such datutios in such profision I shouk imagine never before grated a ship): lower deeds: any stranger, to have witnessed the serene, coukd but faint ly imagine that he saw a crew which had pasied upwards of two yeare, in these dreary regions, and three entirely upon their own resourees, enjoying such excoplent health -->o joyful, so haphy; indeed, such a mirthful ascmblage, muler any diremmstances, would be most gratifying to anç offieor ; but in this lonely situation, I eould mot but foel deeply impreseed as I contemplated the gay and plenteous dight, with the mamy and great mereres. Which a kind and benefioent Providenee had extended towarde us, 10 whom alone is due the heart-folt praises at thankegiving of all for the great blesinge which we hate hitherte experieneed in positions the most desolate which (ath be concerived."

In the antumn of 1×.). ('aptain X'Clure harl made known Lis: intentions of sebting to England, the following epring. hatf of the offioers and arew eio Baffin Baty (taking the hoat from (:ape Fextere) and the Markenzie. The remainder of the (erew were to stand hey the ship) in the hope of releating her in the smmers of las), shoukd ther fail in this the woukl procered with skedges in 1s.)t hey Port Leopold, "our provisions admitting of 10 other arrangement." In the de--patch preatarel by (aptain ME (dure which he sont home by the kand party in 14.3 , ocerors the following passage: -
 We have quittal Port lampol. a notiee containing informattion of our reatr will be left on the doos of the houso at

Whater's Point, on on somm complicuous position. If, how (ever, ho intimathon sumald he fomm of our having heren there,

 or smathed in Barrow's citait, and ho survivors left. If surd be the cave, - which. howerer, I will not anticipate, - it will then be quite unnecossatry to pernetrate further to ther
 could reach that port, we butit, from want of previsions, all

 danger of locing other lives in quat of thon who will then be no mope."

Ther thrilling adrenture in the Ameplean wildomeses told bey Franklin, Richateon, Back, and other-a foretoth that this
 hazarton- in the extrente. The weaker ome - were to tandertake it. thipty of the hradthac-t mand lesing retaine to -tand he the shese with the (eat) ath.




 (x, pry propatation for thi- lat attompt (o) commmaneate









safety of the Investigator and its crew in Merey Bay. It may be imagined with what enthusiasm such news was receised by ('aptain Kedtett and his erew, and immediately preparat tions were made for an expedition to let them know that aid Wats at hamed.

The unique meeting of Captain W' 'lure from the west, and Lientenant Pim from the east, with a party from the Resolute, is graphically deseribed in a private letter from ('ap)tain Kollett.
"This in really a red-letter day in our voyage, and shall be kept as a hodiday by our heirs and sucecesors forever. At nince edelock of this day, our lookout man made the signal for a party coming in from the westward ; all went out to meed them, and assist them in. A serond party was then seen. Dr. Donmille wats the first person I met. I eament deseribe my ferdings when he told me that ('aptain W' Whe Was among the next party. I was not long in reaching him, and wiving him many hearty shakes - no pener were over given by two men in this work. M'Chere looks wedl, bat is very hungry. Ifis deseription of Pim's making the Itarboun of Xerer woulat have heen a fine subjeet for the pen of (aptain Xarreat, were he alive.
" I' ${ }^{\prime}$ 'lume amd hi- first hontenant wore walking on the floce. Sexing a person coming very fast towards them, thes stpposad he was chased hy a hear, of had seen a bear. Wathing townel- him, on gotting onwards a humderd yarde, ther coukd see from his propertions that he was not one of theme Pim hegan to sereoch amed throw wip his hands (his face as b)ate as my hat): this heonght the eaptain and lientenant to a wamd, as they conhl mot hear sufficiontly to make out his langmage
 and -tammerod ont. on X'C 'hare akine him,-
… Whe are ron, and where are fon eome from?'
". Lientenant Pinn, IIterdd, ('aptain Kollett.'
"This wat the more inexplieable to X' (lume, as: I was the lat: perion he hook hant- with in Behringe's strait. He at hongth fomm that this -olitatre stranger wan at true Englishmath - an athgel of light. He zays: •Ite -oon was soen from the -hip: ther had only one hatehway opern, and the crew wore fairly jammed there, in their endeavor to get up). The sick jumped out of their hammocks, and the crew foreot thair deapomedency: in fate all wat rhanged on boadel the Intiontiguteri.
" W' Chure hat thity men and three offieers fully prospared to keare for the depoot at Print sperneer. What atisappointmont it would hase heren to eo there and find the
 - fons, inteded of a fine large depot?
". Another party of seren mon were to have gone he the
 (1) mext them at Point Lamend, in la.it. Tha thints ment
 them on 10 Bowhey J-hant. atm atmat tom ment of my wan














and on June 3, 1853, the colours were hoisted to the masthead, and officers and crew bate farewell to the Investigutor. Upon arriving at Dealy Iskand, they were accommodated on board the Rewolute and Intrepid.

In connection with the glorious report of the discotery of the Northwest Passage and the safety of M' ('hure, (aptain Inglefiedel brought home news of a sad and tragic character ; the death of that gathant Frenchman, Lieutenant Bellot. He hat returnets to the north in the Phomix drawn be the fatal lure of the Aretic which to his advernturous soul was irre-si-tible. In Lugust, 15.3:3, he had rohunteered to lead a party to Sir Edwarl Belcher's spuatron near ('ape Beecher in Wedlington ( hamel. They started on a Friday, the 12th, from Beechey Maknd, - Harver, Johnson. Markden, and Hook, with Lieutenant Bollot in the lead, - carrying despatches from (aptain Pukten of the North Stor.

The rottennese of the ier at this season makes travel particularly dangerous, and Bellot was cautioned to keep close to the eatespre shore of Wellington chamel. They were perovilecl with a light India-rubber boat. Which wat easily dragered upon the sledge. The evening of the 12 the they encamperd athout three milow from (aper Innes. The fothowing day they mate considerable proweres and that nioht meamped upon the hroken ice, over which they had heen phot(hing all daty, near (apor Bowtlen. ()n Suntay they noticet a crack about four feet wide rumbing acrose the chambel. No
 Bellot cheremb and eneouraged the men to make for a cape in the distame which he ealled Firimell ('ape. Vpon reathing this (aper, a hroad belt of water was foment het wern the iee and the -heres. An mentrmate wind raiserl at rough seat. hat
 in the heret. intencling to comerey at line he wheh the remainter of the party and provisions might be hrought ateros.

The violence of the gale drose him hack, and Itarvey and Mathlen were ordereal into the boat, atht suceresfully made
 lowemas of lines, and there lowts from the stedge were landed in safety. The party on shere were hatuling off for a fourth
 his middle in watror, callal out that the ifere was on the mover, and driving offohore.

Bedlent atw that if Xadden heded on to the line much lonexer
 gos, which he dicl. Limutemant Bedrot and his 1 wo mern then hataled the losat on to the -ledere and ran it ap to the wind-
 for the store Before thi- wald be aceromplished, the ice haml raphelly incereazed its motion and drifterl so far from the


 rates dritting out to sex in the towth of al hiter bereeze -













 !lmek, !imatam! Badtot, sm! myall, havine with us the


stedge, mackintosh awning, and little hoat. Commenced trying to draw the boat and sedpe to the southward, but foumd the ice driving so fast, that we left the - ledge and took the boat only; but the wind was so strong at the time that it blew the boat over and over. We then took the boat with us, under shehter of a piece of ice, and Mr. Redlot and oumseres eommencert cutting an iechone with our knive for shetter. Mr. Bellot sat for hall an hour in consersation with us, talking on the danger of our position. I tohd him I was not afraid and that the Smerican Expertition wise driven up and down this ehamad by the ice. He rephere, 'I know they Were; and when the Lord protecets us, not a hair of our heats shall be toucheat.' I then awhed Mir. Bollot what time it was. He said, 'About a cquarter past \& A.u.' 'Thumeday, the 1sth), and then lashod his hookse and said he woukd go and ser how the iee was driving. Ifo hat onty been wone about four minutes, when 1 wont round the same hammock, under which we were shelterad to look lom him, bat couth mot ser him : and on meturning to our shelter. stow his stick on the opposite side of a crack, ahout five fathoms wite amd the iow all hroaking up). I then callent out, ' Nr'. Bellot,' hat no

 When her ont from the Sheltem. the wind blew him inter the
 rixe. Finding there was no hope of again - weing Lemtenant






 came into the land on the castern shore, a long way ow the
womblard of the hare where wre were driven off. Wre got into
 gatth.
 satw an icoberge lying mose to the shore and foumel it on the eromand. Wir suoperted in getting on it and remained for


 rublow hoat. By this piome of drift ior wo mathered to reath the shore and then prosereded to where the aterident

 and Paddud it on Prilaty night."

 hefrimutal- cheri-hem in tember memory ley the nation that Quse him hirth and hy (iveat Beitain for whom be qute his life. his homotarel name i- linked in immontatity with thow

 White Nomth.


17:3

## (HA1TEER X






























prise found at (ape Kellett, on Soptember ? , another record of X'( 'lure phared there on Augn-t 1 S .

Collinson now found it neerseary to seek winter quartors. There he rectured toward the eastern side of the entrance to Prince of Wakestrait.

As conditions would allow, he pursued his explorations in the vicinity of Banks Land, Allert Land, Wollation Lamd, antl Victoria Lant, gaining much valuable geographical information, hat no trace of Framklin, exeept for the finding in the posceston of the Eximos a piece of an iron doorway or hateh frame which might have belonged to the Eirfolse or
 lancl. where (ollineon wintered in 14.2 - - 4 , 3.3.

Coblinson's slewler parties explored the west side of Vioforial strat. but, onting to lack of coal. (aptain (obllisison decided not to try fo fores a parsage through the channel,
 Barmen Point, howerer', without pas-ing a third winter in the morthern conet of Ameriea.

The hese part of the summer of 1853 was pareot by the

 wats made fo atranere at a momemi - notioe -hombly the iee
 there cot moter way, a stronge sale from ofthome having disratatimal the fore
 solver that at leat there were homewamel buand, when they




 againet the po-rible detention of the -hipe for atmother whomy
winter．Ten thousand pormds of meat．principatly mask－ ox，wat ohtained and frozelt．By the ！th of september． nowh formed iow－urron anded them in wioh gatantitios that thery were fairly beat amel drifted at the meres of the park until the 12 th of Dovenher，when，to the jos of all，the shipe were at rest at a perint hase east of Winter Harbor，Mrelvible I－kand，in longitude $101^{\circ} 11$ ．Here the lones winter month－ patsod－howly he，with no greater catuaty thath the death of one offieere and the ering of 1h．jt foumd（aptain Ledlett phemning to fontimue the seareh，while M＇（＇hare end his erew deported April 1 t ，with sedges，for Beechery I－Lank．

While engetere in preparatione for his proposed dedere fournors．（atpotain Kellett received a commmication from
 that rather than rem the risk of pa－ing another winter in the
 at Breebery on or beforr August 26．To thi－（＇aptain Kedett remonstratem．stating that hi－－hipe wore in at faromatable situation for serape that the heahh of the rew wat exere lent．and ther hat provisions in phentre and that thone（om－

 －trong appeal came pritive order－for the ahathbment of 1月年一白）











Since sir Edward Belcher hatd partel with Captain Keilett August 1t, 18592, parties from the Aswistance and l'immer had been diligently exploring Wedtington (Chamel. Waving anchored near ('ape Beecher, in latitude $76^{\circ}$. $2^{2}$ and longitude $37^{\circ} W^{\circ}$., boat and sledge expeditions were sent northward at early as the 2.3d of August. On the 2 2.th remains of s-reral well-huilt Eskimo houses were discovered, of which, says (captain Belcher: -
"They were not simply eirctes of small stones, but two lines of well-haid wall in excavated gromeds, filled in between by about two fect of fine gravel, well pareed, and, withal, presenting the appearance of great care - more, indeed, than I am willing to attribute to the rude inhabitants of migratory Ekimos. Bones of deer, wolves, seats, ete., were numerous, and coal wats foumel."

New lands diseovered were given the names of North Cornwall, Sictoria Archipelago, and to an inland of this gromp forming a chamel to the Polar sea was given the name of North Kent.
()ther sleelging parties intended for the searela of the north-
 limit of their diseoreries the perefons sear.

Belcher ratheol (ape Dispadi, ancheration of six handred
 entrance of Jone (hamed, where he had an extemed wew of sueco-sive beetling heathats on eitheer wide of the chamed. The renghene of the frozen pack compelled the party to take to the lamk, but progres was again imperded hes athenpt

 farther.
()f the retum joumer bether write: -
*) har progros was tantalizing and attended with drap







 a-weon) Werlit.
 mos-s (a)


 wi having hean hailt mone than at steroble. This wat hament - Therant b) -ancery
. litthe later he writer:-




 twontソmita






 : ... : . .

horn of Baring Bay, sir Edward Beleher turned his entire exortions to getting his crews safely back to Englancl. The lswistence and Pioneer were released from their winter
 chamel. The ice had broken up in Barrow strait, and by Argest 22 the floe in Werlington Chamel wat opern for fiftern miles north of the strait. There was only a belt some twenty miles in extent, and this much cracked, remaining between the ships and the water communicating with the Itlantir ()ran. In spite of thes favourable conditions, sir Edward Beleher and his crews deserted the Assistance and Pioneti on Angust 26, 1854, and made their way to the place of remelezrous at Beechey Istant.

The North , ther accordingly set sail with all the officers and men of the Assistance, Pioneer, Resolute, Intrepit, and Imestigntor, but merting the Phunix and Telbot, under Captain Inglefied (who had again returned to the search), a di-tribution of the erews was made among the three versels, and on the 2Sth of September, 1854, all were safely lanted in England.

The report of fiye ships deserted in the Aretie regions, and no tidings of the Eircbus and Tertor, sate rise to the courtmattial of sir Edward Belcher and his officers, all of whom, with the exeeption of Sir Elward, were honowably acquitted, at a matter of cotirse in consequence of their having acterl moter weders, and therir swords were returned to them with very flatteding expressions of approbation. Sir Elward Beldeler was al-n arquitted, but wats reproved for not having
 retumed tolim in significant silener.

 of the dhmimaltr-asal token that all hemen of his retum was grate forever.

I strange and romantic chapter in the history of sir Edward Belcheres squalron was added in the month of septembere, 1s.i.). The whaler, (ienrye Itomy, ('aptain Buddington, hailing from Now Lomplon, Comnectiont, was beect by iee in Baffin Baty: (On looking through his glas one morning, (ap1:an Buddington saw a large ship fiftern or twenty miles away, working her way show toward him. For soveral days ho wat heal her gradually approach, and on the seremith day, the matr,, Pr. (Quail, and there mern were sent out to fiml out what -1: wat.
". Ifter a hard day"s journey over the iere, - jumping from pirere to pieser, and purhing themselves ahong on ioolaterl
 larbourd side, fimmly imbended in the iere. Ther shouted lutily :aseron an they gen within hailing distaner ; but there wat low ancwer. Not a sond was to be serell. For one mos ment, as ther came ahong-idke, the men falterend, with a superstitions ferling. anct heritated to gen on leared. I mement after, ther had elimbend ower the heoken iere, and stood on dow. Exerything was otowed away in order - apars hauled
 ratken thewn. ()yer the helm, in letters of brase was inseribeel the motto. Finglame expecte arery man to do his


The whatemen brake oncen the empranionway, and do-










Niprtar IN JHF: If

17th Januars, 185!, nine A.m. Mustered by divisions. People taking exercise on theck. Five p.s. Mereury frozen."

It last the Resolute had broken heer icy honds and was free. White the Lankee whatemen were examining her, a gate started up and night came on ; for two dilys these four men remained aboart her. By the 19th of sejember they had returned to their own ship and told their story.

For ten dhys these two ships had gradually neared one another, and on the 19th Captain Buddington wats able to board the Resolute himself and carefulty note her condition. Her hold was pretty well filled with ice, and her tanks had burst from the extreme cold, filling her full of water almost to the lower deek.
"Exerything that could move from its place had moved. Everything between decks was wet; arerything that would mondl was mouldy. 'A sort of perspiration' hate setteed on the heams and eeilings. The whalemen made a fire in hellett's stove, and soon started as sort of shower from the vaper with which it filled the air. The Reselute hand. however, four fore pumps. For three days the (aptain and six men worked fourtoen lowuss a day on one of these, and had the plensure of finding that they freed her of water, - that she wat tight still. They cot away upon the matese of ion: and on the 23at of theptember, in the evening. she freeol hereself from her concumbtraneses, and took an eren kere. This was oft the west shere of Baffin's Bay, in latitude (is? . On the shortest tack, she wats twelve humbere miles from where kiellett left her.
"There was work emough still to le done. The rudeder was to he shipherd. and rigeing to low mate tant, sail to be wet."

In another werk she was really to make sail and though both the whalere and lewertute still dritand in the ierepark, Captain Buddington resolved to loring hee home: Fonewer.

were sedeeted from the (ieorge Inemry, and with rough tracings of the Smerican coast, his lover watel and quadrant for his instrumonts, ('aptain Suddington undertook a perikous and remarkable joumery. The shipes ballast was gone, she Wits top-heavy and undormanned. Heavy gates and head winds drexe them as far as the Bermudas. The water left in the ship's tanks wath brackish and the anen suffered from this: 1.
"For sixty hours at a time," say's Captain Buddington, "I freopucently hath no shoep)."

In the meantimes, he had commomicated with an lingtish whang lark, and he her sent to (aphain Kedlett his epankets and word to lise owners that he was eoming.
()n suntay morning, Decomber 2 l, with the British ensign flying from her shorn masis, the lesentute anchored opposite New London. It will bre remembered that (ireat Britain greneroush released all clams in farour of the salons, and that Congeres resolved to phrehase the resed and restore it ass a gift to Whgtancl. Ther laceotule wat taken tor at dre dock in Browhyn, and there put in complere repair. Exorytang on
 position, and at last when this work was complated, she was
 -aik all sot and stremmes all flying started for lingland. (On






 -1!.



and such an outburst of popular applause as was never known before.

On the 30th of December, 18.56, the American flag was hatued down on board the Resolute, amid a salute from the V'ictory of twenty-one guns. The Enion Jatk was hoisted up, and the formal transere of the Rewolute to the British authorities was completed. The following day the Ameriean offerers and erew left England for the Enited States.

Though the fate of Sir John Franklin was still a mextery. news of a melaneloly character had reached England through the Wontreal Herald of Oetober 21, 18.5t, in which a letter was pahti-hed writton by Dr. Rate of York Factory, August 4 of the same year, and adderesed to the governor of the Hulsom Bay (ompany. August 15, 1s.j), hae had reached his ohd quarters at Repulve Bay, where he wintered : the end of the following March he undertook his epring journey it Pedly Bay he fell in with Ekinos from whom he sefoured soceral artioles that he recognized as bodonging to various menhbors of 'sir John Franklin"s expedition. "( $)_{n}$ the morning of the ?!th" (April), he writes in hi- journal, "we were mot hy a very intedigent Ekime driving a dog-stodge laden with maskers beef. This man at onere consented to aceom-
 his loal on the show, and was rearly to join us. Hatring explamed to him me object, he saibl that the road hy whech he hete come was the best for us: and hating lightened the ments sedges, we travelled with more farility: We were now joined he anothre of the natives. who had been ahoent sealhunting fosterday: but, bemg anxion to see us, had risited ont show-house barly this morning, and then followet un onar tratk. This man was vers emmmmicative and, on putting to hinn the masul guestions as to his havingerem 'white matu' before of any -hipe we heato. hereplien in the newative: hat satul that a party of "Kabloomans' hat diek of starvation
a hone distane to the west of where we then were, and berond a hargeriver. He -tated that he dial not kuew the exaet phaere, that he never hast beren theres. and that her eond not acerom-
 suhsergumthy ohtained from variour sourero wate to the fotlowing aftect:



 oser the ioe, and drageing a boat and dedere with them.


 to beliere that the -hip) or -hiph hanl heme (rushert he fere and thes were now erome to where thes expereted to find dere to -hont. From the apmetranc: of ther men - ath of whom, with the exerption of an offeres, were handine on the drate
















tered about in different directions. ()f these seen on the island, it was suphosed that one was that of an offier (chief), at he had a telescoper strapped over his shouklers, and a double-harrebled gun lay underneath him.
"From the mutilated state of many of the boolies and the contents of the kettles, it is evident that our wretehed countrymen had been driven to the dread alternative of camibatfism ats a means of sustaining life. A fex of the unfortumate men mu-t hatrestrived until the arrival of the wild-fowl (say until the end of Xay. , as shots were heard, and fre-h bones and feathers of geese were noticed near the serene of the sad erent.
"There appears to have been an abomdant store of ammunition, as the empowder wat emptied by the natives in a heap on the ground out of the kes or eares contaime it, and a guantity of shot and hetl was found helow high-wator mark, having probably been left on the iee close to the bearh before the string eommenced. There matet liate been a
 Watehes, eomparises, etco, all of wheh seem to hate boen hroken up, as I saw pieces of these different articles with the natives athel I purehamed as many an por-ible together with some silver spoons and forks an ()reter of Merit in the form of a star. and a smak silver phate engraved 'sir John Franklin, K. (. .B.".
 a lanel joumer wat molertaken hy Mr. James Anderion of
 flexemeded the (ireat lish River in Jume. Res. and at the raphl- helow Lake Franklin, thex Fokime hate were semp and varion- attieles were fond which the G-kimos elamed wero ohtained from : berat owned by whito mon who hat dient of starvation. These atticlese consi-ted of tent-poles. prather.
 ration-kinds.

Anderion purhed on to Point Beaufort, and finally reached Montreal laked. Thare other artiches were found, such as chain, hooks, tools, roper, bunting; the name " Ars. Stantey"
 pieece of board had on it 'I'ror'. No signs of haman remains were found, howerer. Jfore a seareh at Point (ogle, where similar articles were found, Inderson's party returned hone.

Though the British eovernment no longer deried to pursum the seapeh, Laver Franklin. Whose memarkathe tenacity of purpose and hoyat devotiont harl awakemed so much atharat tion and rexpeet, deedided to expend the lat remmant of her fortune to sutfit the smatl serenw -t eamer For under the able
 Hobson, and arme it to solve the mystery that still chmog about ther fate of her berowed hush ented.

It firs it seomed as if all the edements hard eomspired to make this expertition a faiture, for in the smamer of 1N.) the Fox formed hersedf detiting at the merer of the jee off Xesville bays and after a dreary winter the pack had earried


 1) anish settement of Holstemburg, the saited into Barront Strat.
laty the following epring parties mader 才['('lintock and










Year, that is, August or Soptember, when the ships were destroyed; that all the white people landed safely and wont away to the (ireat Fish River, taking a boat or boats with them. The following year their bones were found upon the trail. II'('lintock and Hobsom separated upon reaching ('ape Tictoria, and the former took up the search of the east coast in at southerly direction, white Hobson made a diligent examination of the western coast.

On May T, 1sse, MCClintock writes:-
"To avoid snow-hlindness. we commeneed night marehing. (ros-inge over from Malty Island towards the King William Land shore, we continued our mareh southward until midnight, when we had the good fortune to arrive at an inhabited show-village. Wo found here ten or twolve huts and thirty or forty natives of King William Island: I do not thimk any of them had orer seen white people alive before, but they evidently kew us to be friends. Wo halted at a little distenco. and pitehed our tomt, the better to secure small articles from being stolen whilst we bartered with them.
"I purchased from them vix pieces of silver plate, bearing the erests or initials of Franklin. ("rozier, Fairloblne, and MoगOnadel: ther also sold u- bows and arrows of English Woods, uniform and other buttons, and offored us a heary slender mathe of two short stont pieces of emered wood. whele no mere looat cond have furnished them with, but this, of conres, we could not take away : the silver spoons and fork Were readily walk for form needlese carch.
"I Itringe ohtaincel all the redies they poresesed," contimues
 venison, drital and frozen valmon, amd wold some of my puppies. Thery tolt us it was five datys journey to the werk, Ohe dey up the inlet still in sight, and four (aty o overland: this wonkl carre them to the western coset of King William Land; they adedel that but little now remained of the wreck

Which wias arcesible, their countrymen having carried almost overything away. In answer to an incuiry, they said she Wats without masts; the question gate rise to some laughter amomst them, amd they epoke to each other aloout fire from whid Peterson thought they hat burnt the masts: theromet dowe to the derk in order to get them down.
"There had heen matny books, they said, hut ath have long ago been dextroved by the weather ; the ship wats forecel on shore in the fall of the year by the iere. She had not been visited daring the past winter, and and okt woman and a boy were -hown to us who were the last to visit the werek: they satel they hat heren at it dwrog the winter of 1857-18.8. Potereon guestioned the woman elosely, and dee remmed anxions to give all the information in her power. she said mamy of the white men thengerel he the way as they went to the (ireat River; that some werr horied and seme were not; there did not themselves witness this: hat diseovered their borlise daring the winter following.
" Whe could not arrixe at ally approximation of the num-
 low. This wats ath the information we eoukd ohtain.".
\isiting the shore along which the retreatinge arows must
 - Kowly watking alomg atored ridge near the hearla which the

 ing inntationg through ther show. "The skeldon now

 arnitan:




sequently ohtained rexpecting the unfortunate owner and the catamitous matrel of the lost erems, but at the time it was frozen hated. The substancer of that which we gleaned upon the epot may thus be summed up : -
"This victim was a young man slightly huilt, and perdaps above the eommon height; the drese appeared to be that of a stewarl or oflieer's servant. the loose bow-knot in which his neek-handkerchief was tied not being used hy seamen or offieres. In erery particular the dress confirmed our conjectures as to his rank or office in the late expertition, - the blue jacket with shathed sleeves and hraided edginge and the pilotcloth wreat-coat with plain covered hattons. Whe found, ako, a clothro-brush near, and a horn pocket-comb). This poor man seems to have selected the hare ridge top, as afforting the least tiresome walking, and to hate fatlen upon hit- fate in the position in which we found him. It was a melancholy truth that the okl woman spoke when she said 'they foll down and died as they watked along., "

It ( ape Hersehel a cairn was found atl but demolished hy the natives, and greatly to the disappointment of J' (lintock no record of any kind was diseoverert.
"I notieed with great eare." her writes, "the apperaranere of the stomes, and came to the emolusion that the cairn itself Wa゙ of ohd date, and hat beron aredod many yatro ago, and that it was rexheod to the state in wheh we fomed it he peopher hatring hrokers down one side of it : the displaced stones. from being turned over, looking far mowe fresh thath those in that portion of the cairn which had heen keft standing. It wat with a feeling of deep requet and moch disappointment that I left this - poot without finting somes certain recom of thon maters to theme rementre fame. Penhape in all the wite world theme



how；many istets and－limgteridere lie far off the eroet；and at we edranced we met witl hummork－of man－uthlly heary ice，showing plainly that we were now travelling upon a far more expored part of the coast－line．We were apmpordinge a spot where a revelation of intense interest was a waiting me．
－• Hhout twedre mile from Cape Hersolel I fonted a small cairn built by Hobson＇：party，containing a note for me．
 without having seen anything of the wreek．of of nativor， but he harl formel a record－therereord－o arelently ormeht for －of the Franklin experlition－at Point Vietors．on the northwest coat of King William Lamul．That record i－ indeced a sad and touchinge relie of our low frionde．and，to simplify its content－，I will point out－eparately the douthe story it so briefly tell．
＂In the first platere the recorl paper was one of the grinted

 sorker to arerertain the eft of the coments．hlank－heine left for the date amb position ：and perom findine one of theor recond－is recpuse to formarl it to ther sewerater of the
 is printerl upon it in six difiowent language I Pom it wat written，apparently he Lientensht（rome ：A－follow－：
＂．．2h of \ary， 1ッド

II．XI．－hipe Erthow and Torom
wintereal in the iore in lat．नob
（1．）＇N．：long．Sa 2．3＇W．




 ．． 11.

- Prarty consisting of 2 officers and 6 men left the ships on Monlay, 2th May, 1847.
"."(im. (iore, Lient.
"'(has. F'. Des Virux, Mate.'
"There is an error in the abore docmenent, namely, that the Frebus and Torror wintered at Beechey Island in 1816-7, the correct dates should have been 18t5-6; a glance at the date at the top and bottom of the reeored proves this, but in ail other reepecets the tale is tokl in ats few words as posishle, of their womlerful suecese up to that date, May, 1817.
" We find that after the lat imteltigenee of tir John Franklin Wat receiven be us (bearing late of July, 1st.5), from the whakers in IIchuille Bay, that his experlition passed on to Lanceater somme, and entered Wellington Chamel, of which the suathern entrance had been diseovered by Sir Edward Parry in 1819. The Erebus and Terror sailed up that strait for one homdred and fifty miles, and reached in the atutum of 1 sts the same latitule an was attained eight yours subee(quently WI. M. S. Assistance and Pioneri. Whether Franklin intendel to pursue this northern course and was only stopped by iee in that latitude of $77^{\circ}$ north, or purporecty relinguithel a route which sermed to lead away from the known sean off the eroat of America, muat be a matter of opinion: hut this dorument ascure us that Sir Jolm Franklin's expectition, having aseomplithed this examination, returnew anthwarl from latituld $7^{-2}$ nomth. which is at the head of Wrdineton (hamed, and re-entered Barrow's stait

 navientor in a single seaton, and when the Erefors and Tormo were seremed at Beechey Fland for the roming winter of
 mont chereme. These result - were the expleration of Wellington and ( guen's ( 'hannol. and the addition to our charts

of the extensive lands on either hand. In 1846 , they proceeclecl to the southwest, and eventually reached within twelve miles of the north extreme of King William Land, when their progress was arrested by the approaching winter of $1846-7$. That winter appears to have passed without any serious loss of life, aml when in the spring, Licutenant Core leaves with a party for some especial purpose, and very probably to eonnect the unknown coast-line of King William Land between Point Victory and Cape Herschel, those on board the Erebus and Terror were 'all well,' and the gallant Franklin still commanted.
"But, akas! round the margin of the paper upon which Lieutenant Gore in 1817 wrote those words of hope and promise, another hand had subsequently written the following worls: -
"April 25, 1818. - H. M. ships Terror and Erebus were deaerted on the 221 April, 5 leagues N.N.W. of this, having been berot since 12th september, 1816. The officers and (rews, consisting of 10\% souls, under the eommand of (aptain F. R. M. (rozier, landed here in lat. $69^{\circ} 37^{\prime} 42^{\prime \prime}$ N., long. $98^{\circ}$ 11' IV. Sir John Frankitin died on the 11th June, 1847 : and the total lose by deaths in the experlition has been to this date 9) officers and 1.5 men. " (signed)
"F. R. M. (rozior James Fitzjames,
" ('aptain and Senior Officer, Captain H. M.S. Erebus. "atul start (on) tomorrow: 26th for Batk": Fïh River.'
"This marginal information was evidently written hy (aptain Fitgiames, excepting only the note stating when and where they wore going, which was added by (atain (rozior.
*There is some atditional marginal information relative to the transfer of the document to its present ponition
viz, the -ite of sir Jame: Ross: pillar) from a opot four miles to the northward near Point Victors, where it had been originally deposited hes the late Commander (iore. This little word lote fhows that her, too, within the twelsemontlo had pat-ad atray.
"In the short epace of twelve months, how noournful hat berome the hitiory of Pranktins expedition ; how changed from the cheerfial ' It well of Craham Gore! The -pring of 1ヶt7 formal thenn witlim 90 mites of the known seat off the eront of America : and to men who had already in two eratons sated wrer Sof mile of previouly unexplored waters, how confikent muat they have folt that that fertheoming natisable
 rening pace! It wat ruled otherwise. Within a month after Liequtenant (rope phaced the recome on Point Tictory, the math-losenl header of the expedition, sir John Franklin. Was doad: and the following - forme fomd ('aptain ('rozier, upon whom thr command hat devolved at King William Land, endextoring to supe his etarving men. 10.j sonks in all, from a tormble death hy retreating to Hukon Bay territories up) the Batek or (ireat libh River.
". I sadder take was never toll in ferwer work. There is -mbethine depply tomehme in their extreme -implicity and


 nation of a lat lohl -trugede for lite. rather than peri-h with-





 boat amother melandmer rethe which Hobeon hatl fomat
and examined a few dars before, as his note left here informed me ; but he hatd failed to discover record, journal, poeketbook, or memorandum of any description. A vast quantity of tattered clothing was lying in her, and this we first examined. Not a singte articte bore the name of its former owner. The boat was deared out and carefully swept that nothing might secape us. The snow was then remored from about her, but nothing whatever was founcl."

After a detailed description of this boat, its weight, construction, and marks, etc., M`Clintock continues:-
"But all these were after observations; there was that in the boat which transfixed us, with awe. It was portions of two human sketetons. One was that of a slight young person; the other of a large, strongly made, middte-aged man. The former was found in the bow of the boat, but in too much disturbed a state to enable Hobson to judge whet her the sufferer had lied there; barge and powerful animals, probably wolves, had destroyed much of this skeleton, which may have been that of an offieer. Noar it we found the frasments of a pair of worked slippers, of wheh I give the pattern, as ther may possilly be identifect. The lines were white, with a black nargin: the spaces white, red, and yellow. They had originally been 11 inches long, lined with calf-skin with the hair keft on, and the edges bound with rext sitk ribbon. Besides these shippers there were a pair of small strong shooting half-hoots.
"The other skeleton was in somewhat more perfeet state, and was enveloped with clothos and furs: it lay across the boat. under the after-thwart. ('low beside it were found five watches : and there were two donble-barederd goms one barre in eath haded and cooked... standing muzate upwats agamst the bat's sike. It may he imagimed with
 anxionsty every fragment of chothing was turncel over in
seareh of pockets and pocket-books. journals. or even names. Fibe of six smatl booke wore found, all of them seriptural or derotional works. exerept the "Vicear of W"akefiedd." One little hook, '('hristian Melorlies,' bore an inseription upon the title pase from the donore to (i. (i. ( irabam (iore? ? A small bible containcel momerous marginal notes and whoke
 Now Trotament and Prayerbook were found.

- (Quantitios of elothing and other articles were of one dosumption and another truts astoni-hing in variety and such as. for the most part. mokern sederetravellers in these regions would consider a mere aterumukation of dead weight."

The only provisions that were diseovered were a fitte tea and nearly forty pormets of chocolate: a small portion of tobetoon wit- aloo found

The preition of the ahandoned boat wat abont fifty mild as a -lealee would travel from Point Viveory and therofore

 fifte mike from Nontreal Iskand. ". 1 little reflecetion." whtes II' 'tintock. "led me to sati-fy my own mind at lese-t that the ho:z was returning to the -hap)-: and in mo




 rethum of the ather- from the -hip) with a fre-h stork.






the five wateles, and many other articles which woukd otherwise seareely have been left in her.
"The same reasons whech may be assigned for the return of this detaremont from the main body, will ako serve to aecount for their not having come back to their boat. In both instances they appear to have greatly overrated their -trength, and the distance they coukd travel in a given time.
"Taking this viow of the case, we ean understand why their provisions would not last them for anything like the distance they required to travel, and why they would be ohliged to send hack to the ship, for more, first taking from the detached party all provisions they coukd possibly epare. Whether all or any of the remander of this detached party wer reatched their shipe is uncertain ; all we know is, that they dis not rerisit the boat, which aceounts for the abssenee of more skeketons in its, neighborhood; and the Exquimos report that there was no one ahive in the ship when she driftert on shore. and that but one human boty was found he them on boart of her.

- . Ifter learing the boat wo followed an irregukar coast-line to the N. and N.IV.. up to a very prominent cape, whicll is pobably the extreme of kand seen from Point Victory lysir Junm Rose and named by him Point Franklin, which name, as a "apre it still retains."
"I need hardly -ay, " conchules M' (lintock, "that thromghont tise whole of nye journey atong the shores of King William Lamd l canserl a most vigilant lookont to be kept to seatward for any appearance of thestranded ship spoken of hy the natives : our seareh was, howerer, fruitles in that respert."
()i Lientenant Hobson's most ("areful and thorough searelh, Me lintock writes: " $\mathrm{H}_{1}$ exerelead his diseretionary power
 in coming wrop thr samb groumb after lim. I could not dis(a)ry any trace that haul sacaped him."
()n the loth of June. N' (lintote ence more reached the Fox: where ha fomat Hobson, who hatel preceded him by five days, -ick :tme mathle 10 wadk, hatring been drageged upon the stender for the hest part of his return journers

A third skotaing party under ('aptain Young, whech had left the the of April, wat still in the fielel. and M['(lintock began to feel so great anxiety for their safety that by the 2.th of Junc he set out with four men to search for them. "()n the 2-th1." her writos. "I sent three of ther meren batk to the dimp, aml with Thempsen and the dogs went on to Pemmican Rock. Whare to our great joy, we haphily met Vomas athl his partr: who hat but just returned there, after a long


It mathe briefly stated that Young wasin the fiederementreight dats under most trying efremustances. ('ro-sing Franklin strait 10 Prinere of Wakes Land, he trated ite theres to it * *outhern termination at ('aperwinhmme. Ife faled in ant atempt to cross M' ('lintork ('hamnel, owing to the rough


 and Bromas - in 1-is.

The return of the $F$ one to Eneland wat not adeomplithed without difleolty. (nwing to the Weath of the enginer. which whiend J'(lintock to stand by the eneine ow lase than










## CHAPTER NI

The second Crimnell expedition. Commanded by Dr. Elisha K. Kane. - Winter quarters in Renswedar Harbour. - Sledging trips:- To the rescue. - Effects of cxhation and cold. - Dr. Kanes soumer. - (ireat Glacier of Humboldt. - Return and thlness of Dr. Fiane.-Sceond winter in the ice. - Privations: and suffering. - Abandoment of the idrance. - Retreat and reserue.
\extios has already been made of the second Crimell expedition, commanded by Dr. Kane and financed by Mr. Grimuell and Xr: Prabody of Lomedon. Dr. Kane's instructions from the Nary Departnemt at Washington, dated Noxember 27. 1852. rearl as follows:-
"-sı: - Lady Franklin having urged you to undertake a seateh for her husband, sir John Franklin, and his companions. and atreatl, the formoe having been placed at your dioposition hy Mr. Crimedl, you are herehte asioned to - pectial daty for the purpose of conducting an oserland journev from the umper waters of Baffin's Bay to the shores of the Polarsints.
*Relying upon four zeal and discretion, the Department sonds , You forth upon an undertaking wheh will be attended with speat peril and exposure. Trating that son will he
 suceres and a cafe return to your frimen, I am,
"Powpertfally, yours oherlient arroant. "Jomin P. KEcNedy.
"I'raced Swistant surgeon E. K. Kanc.
"Inited -tates Nixr. Phikardelpha."
The small brig Admance, one humdred and forte-tons" bur199
den. with seventeen pieked men hesides the eommander, sailed from New York on the Both of May, 185:3, "eseorted berereral nolde steamers; and, passing sowty on to the Narrows amid salutes and cheers of farewell."

It the end of eighteen days the Adronce had reached st. John's, Nawfoumdand, where (iovernor IFamilton, a brothor to the seeretary of the british Actmiralty, and other officials, eombined with the inhabitants to weleome the expedition lopen sailing once mose, Dr. Kane was presented with at noble leam of Newfomelland doges, the gift of the governere

The Adremee reached Baffin Bay without incident, and a fow days later found her off the eout of (ireentand, makiner her way to Fineternates, which was reached the 1st of July, "amid lle ckamor of its entire population, asisembled on the rock to greet us."

Here a mative Exkmo, Hans (hristiansen, wats engeged as interpereter for the experdition. The Aderme thern presereder arrose Melville Bay in the wake of vast ierenerge, doblging to the reat of these hage floating mases, holding on to them When adrores winds hereanc amosing, and pressing forward
 pareed byy the 16ith. The following day the Idromere an(ebored at Provern, where Dr. Kane was warmly weleomed hy his ohd friend ('hristansen, the superintemetent. Here

 her ascictants. Whale the herig sated lemarely up) the coast, Kiture ort ont in the whale-tonat to make purehates of doges :mones tha mative of the different seftrmente. Vfore atwo


 rusemblame of it- porfike, and fimally Zatik. the farthest


Inclining more directly to the north, she sighted the landmark known as the Horse's Head, and hater Ducks Iskands, and made for Wikoox Point, which was passed on the 27 th of July. The $2 d$ of August found then well in the iee and harassed by fogs, but the floes opened at intervals, ablowing the ship to make her slow progress through them. The north Water was comparatively free from obstructions, and by the 5th they had passed the "Crimson Cliffs" described by Sir John Ross; two days later they doubled Cape Alexander, and passed in to smith Sound. At Littleton Island they stopped to eleposit a boat and supply of stores. On August 8 the ship closed with the iee and hored her way through the looserstream iee some forty miles beyond Life Boat ( 'ove, when it became impossible to fore her way any farther, and, says Kitne: "A dense fog gathering round us, we were earried helplesely to the eastward. We should have been foreed upon the Greenland coast, but an eddy close in shore rekeased us for a few moments from direet pressure, and we were fortunate enough to get out a whake-line to the rocks and warp into a protecting niche."

The following day he writes: "It may be noted among our little miscries that we have more than fifty dogs on board, the majority of whom might rather be chatacterized as 'ravening wobes.' To feed this family upon whose strength our progress and suceess depend, in really a diffieult matter. The absenere of shore or land ice to the south in Baffin Bay has prevented our rifles from contributing any materiak aid to our commissariat. Our two bears lasted the commorants hut eight thys: and to feed them upon the meager atlowane of two pounde of raw fle hevery other day is an ahmost imposible neeresity. Onily vesterclay thery were ready to eat the catroose up, for I woukd not give them pemmaican. ('orn meal or beans, which Pemery - dows fed (on. they disedain to touch; and salt junk would kill them.
" Aecordingly. I started out this morning to hunt walrus, with which the sound is teeming. We saw at least fifty of these durky monsters, and approatheal many groups within twenty paces. But our rifle balls reverberated from their hides like cork pellet- from a pop-oun target, and we could not eret within harpoom distance of one. Later in the elay, however, ()hben, rlimbing a neighboring hill to sean the horizon and see if the ice hat stackenerl, found the dead carcats of a narwhale or sea-mincorn ; a happy discovery, Which has recured for the at least six hundred pounds of good, fetiel, whelreone flesh. The length of the narwhate was fourteen feep, and his process, or 'horn,' from the tip to its bony encerement, four feet. . . . Whe built a fire on the rocks: and melted down his blubber: he will vield readily two barrele of sil."

Theremelition of the iee, furious gales, and the fast approaching winter atl combined to dishearten the erews, who with one exereption desired to retum south and find winter guarters. I)r. Kane, however, detemmined to push northward,
 By the doth of centemiser". the kone "night in which no man can work" was chore at hatad: the thermometerstooed at $14^{\circ}$; forery proparation wats madr for wintoring; atorehouse was
 arranerel at a short di-tanee from the ship.
"Bosides preparimg our winter quaterer." writes Dr.



 denm it impertant to mar movernent- duringe the winter and



tain in all some twolve hundred pounds of provision, of which eight hume leed will be permmican."

To this end one hundrod and twentr-five miles of the (ireenfand coast was traced to the north and east ; the largest of the three depots was loeaterl on an island in latitude $70^{\circ} 12^{\prime}\left(6^{\prime \prime}\right.$, amblongitule $6.5^{\circ} 25^{\prime} 5^{\prime}$.

By the 20th of Nowember, the darkness made field work imposible, amd for one hundred and twenty days the little band of Aretice explorers endured the weariness and bitter cokl of the long night.
"()n the lath of Jonuary," writes Dr. Kane, "our thermometer's stood at forty-nine degrees below zero ; and on the 20th the range of those at the observatory was at $-64^{\circ}$ to - $\mathrm{fin}^{-2}$. The temperature on the floes was always somewhat higher than at the island ; the difference being dur, ats I suppose, to the heat conducted from the sea-water, wheh whe at a temperature of $+29^{\circ}$; the suspencled instruments being affected hy radiation.
" ()n the sth of Fobruare, our thermometers began to show unexampled temperature. They ranged from $60^{\circ}$ to $75^{\circ}$ botew zero, and one very reliable instrument stood apon the taftirail of our brige at - $6.5^{\circ}$. The reedued mean of our best pirit-stambards atye - $67^{\circ}$. or $99^{\circ}$ helow the freezingpoint of water.
". It these temperatures chlorio ether hecame solid, and carefully prepared chloroform exhibited a eranular pellicle on its surfece. Spirit of naphthafroze at - $5 t^{\circ}$, and oil of wintergreen was in a floceulent state at -50, and solid at $-60^{\circ}$ and - $(i .)^{\circ}$.
*The exhatations from the surface of the hody iaverted the exposed or partially clad parts with a wreath of vapor. The air had a pereeptible pungeney upon inspiration, but I coukl not pereere the paindul sonsation which has been spoken of by some siterian travellers. When breathed for
:any bength of time. it imparted a semsation of dremess to the air-pasexiges. I noticed that, as it were involuntarily, we all breathed guatdedty, with eompreseod lips."

The depmesing infthener of such low temperatures affected both man and heast. The poor dogs suffered keenly, and matny of them died of afferetions of the bram, which bergan with the same symptoms of fits, hunary, and lockjaw. 'The lose of fifty-seren of these hrave amimats seriously affecterl 1)r. Kime's phams. The orew were greatly depleted hy scurry and ahmost unfit for the arduous work planned for the carly spring.
". In Aretic night and an Mretice day-" remarkn Dr. Kane, "age a man mose rapidly and harshly than a year anywhere dee in the werk."

Early in March a sledging party was orqanized to aseortam whether it were practicable to foree a wate over the
 vatere erope was exht out to phace atepot of provisions at a stitahle distane from the hrig.

入ateh 20, 1)r. Kithe writes at follows: -
"I saw the depot barts off seaterdaty. They getve the whal there cherers, with there for myedf. I gex them the whote of my hoother"s areat wedding-ake and my last two
 newer! to famomaly: But I was mot satisfied. I could sere it wat hatel work: and, bexides, they were without the besto (1) (momeh extet permmican to make their aleporit of importance. I fothowed theme therefore and fomm that ther

 them, and gave no new orters for the morninge hat after

 retament hi- (immband - dedere and that mo sledere of athy
other construction could have been moved at all through - $40^{\circ}$ snow, I quictly bade them good-night, leaving all hands under their buffaloes.
"Once returned to the brig, all my tired remainder men were summoned ; a large sledge with board rumners which I had built somewhat after the neat Admiralty model sent me by sir Francis Beaufort, was taken down, seraped, polished, lashed, and fitted with track ropes and rue-raddies; the lines arranged to draw as near as possible in a line with the centre of gravity.
"We made an entire cover of canvas, with snugly adjusted fastenings; and by one in the morning we had our disearded exeess of pemmican and the boat onee more in stowage. Off we went for the camp of the slecpers. It was very cold, but a thoroughly Aretic night; the snow just tinged with the crimson stratus above the sun, which, equinoctial as it was, glared beneath the northern horizon like a smetting-furnace. We found the tent of the party by the bearings of the stranded bergs. Quietly and stealthity we hauled away their Eskimo stedge, and placed her cargo upon the Faith.
"Five men were then rue-raddied to the track-lines, and with the whispered word, 'Now, boys, when Mr. Brooks gives his third snore, off with you!' off they went, and the Fath after them, as free and nimble as a volunteer. The trial was a trimmpl. We awakened the sleepers with three cheers: and, giving them a seeond good-hy, returned to the brig, earrying the dishonored vehicle along with us. And now, bating mishaps past anticipation, I shall have a depot for my long trip.
"The party were seen by Mectary from aluft, at noon today, moving easily, and about twelve milew from the brig."

Eheven dare later. Mareh 31, Dr. Kane writes: -
"We were at work cheerfully, sewing away at the skins of
some meneasins he the haze of our lamps. when, toward midnight. We heard the nevise of repps athere, and the next minute fomment. Whasens and Pederen (ame down into the cabin.
 apperarane on beard. Ther were swollen and hageard. and hardly able to - peak.
"Thuir story was a fearful one. Ther hat left their come panions in the ice. risking their own live to bing us the new: : Browke, Baker. Witson, and Pherre were ath lying frozen and diathen. Where". There erould not tell: somecwhere in anneng the hummorks to the north and fent: it was drifting heavily romed them when they parted. Irith Tom had -tayent he to feed and sare for the othere: but the
 tion them further. Ther hand evidently tratednen a eleat ditance for the were sinking with futigue and hander. and would hatedle be ratheel enenges to toll un the diferetion in which there hatd fome."
". Wr first impuher." comtinue Dr. Kame. "wa- 10 move on





 -inkine with exhation, and if he went we man (ame lim.
"Thure was mot a moment to he la-t. While -mone were






sisted of nine men and myself. We carried only the clothes on our backs. The thermometer stood at $-46^{\circ}, 78^{\circ}$ below the freerzing-point.
" I well-known peculiar tower of ice, called by the men the 'Pinnacly Berg,' scrved as our first land-mark; other icebergs of colossal size, which stretched in long beaded lines acros- the hay, helped to guide us afterward; and it was not until we had travelled for sixteen hours that we began to lose our way:
"We knew that our lost companions must be somewhere in the area lefore us, within a radius of forty miles. Mr. Ohlsen, who had been for fifty hours without rest, fell asleep as soon as we began to move, and awoke now with unequivocal igns of mental disturbance. It became exident that he had lowt the bearing of the icebergs, which in form and color endlesty repeated themselves; and the uniformity of the rast field of snow utterly forbade the hope of local landmark:
"Pushing ahead of the party, and clambering orer some ruged ice piles, I came to a long level floe, which I thought might probably have attracted the eyes of weary men in ciremmstances like our own. It was a light conjecture: but it was enough to turn the scale, for there was no other to hatance it. 1 gave orders to abandon the sledge, and disperse in search of footmarks.
"We raied our tent, placed our pemmican in cache. except a small allowance for cach man to carry on his person ; and poor Ohlsen, now just able to keep his legs, was liberated from his hag. The themometer had fallen be this time to $-49^{\circ} 3^{\prime}$. and the wind was setting in shamply from the northwest.
"It was ont of the question to halt: it required brisk exer(ise to keep us from freezing. I could not ever molt iere for water: and. at these temperatures, any resort to show for
the purpose of allaying thirst was followed be bloonly lips and tongue ; it burnt like ceanstie.
"It was indispensable then that we should move on, looking out for traees as we went. Yet when the men were ordered to spread themselves, so as to multiply the chancers, though they afl obeyed heartily, some painfui impress of solitary danger, or perhaps it may have been the varying eonfiguration of the ire-field, kept them (lowing up) continuaily into at single group. The strange manner in which some of we were affected I now attribute as much to shattered nerves as to the direet influenee of the cold. Men like Me (iary and Bonsall, who hat stood out our sererest marehes, were sedzed with tremblingfits and short breath : and, in spite of all my efforte to keep up) an (example of sound bearing. I fainted twiee on the sonow.
" We hatl beern nearly righteen hours out witheut water or food, when a new hope eherered us. I think it was Hans, our Exkino hunter, who thought he saw a broad stedere tratk. The drift hat nearly effated it, amd we were some of un- donlot ful at first whether it was not one of those adere dental rifts which the gates make in the sufacerenew. But, as we traced it on to the dera) shem anong the hummocks, we Were led to foot-terps: and. following these with religions care. We at kest rame in sight of a smath Ameriean flag flutforing fron a hammock, and kower down a little Matomie banner hanging from a tent-pole hardly above the drift. It Wat the (emmp) of our disahled commades: we reathed it

 fir-t to (anter mp: hat. What I rearhed the tenterartam, the men were -tameline in -itont file om rarh -ide of it. With






hurst of weleome glathess that came from the four poor follows stretehed on their batks, and then for the first time the cherer outside, my weaknes and my gratitule together ahmost overceme me. "They had expected me: they were sure I woukd come!'
" We were now fitteen souks ; the thermometer sevent y-five degrees below the freezing-point ; and our sole aceommodation a tent barely able to contain eight perions; more than half our party were obliged to keep from freezing by watking outside while the others slept. Whe coukd not halt long. Fach of us took a turn of two hours' sleep ; and we prepared for our homeward march."

Contimuing his spirited narrative, Dr. Kane deseribes the retreat :-
"It was fortunate indeed that we were not inexperienced in sledging orer the ice. A great part of our track laty among a suecession of hommorks: some of them extending in long lines, fifteren aml twenty feet high, and so uniformlyserep that we had to turn them hy a considerable deviation from our direct course : others that we foreed our way through far abowe our heads in height, hring in patathel ridees. with the space betwern too narrow for the sledge to be lowered into it safely and wet not wide enough for the rumeres to eroses without the aide of ropes to staty them. These spaces, too. Were generally chocket with tight show, hiding the openings betwern the ire-fragments. Thes were fearful trap) 10 disengere a limb, from, for erery man knew that a fracture or
 Ander was top heatr with its head: the matmed men eould bot bear to the lashed down tight emongh to seroure them atatint falling aff.
" Votwith tatadinge onir catution in rejecting erory super-
 hametreal posmats.
" And yet our mareh for the first six hours wave very cheering. Wir malt by vigorous pulls and lift- nearly a mile
 Wearys Our stedere - hetained the trial admirably. (hhtorst, rextored by hope. walked -teadily at the keading belt of the - Lowler lines: and I began to feel certain of reatehing our halfWay otation of the day before, where we hat left our tent. But We were still nime mike from it, when, ahmost without premonition, wh all beeane aware of an alaming failure of our encrgies.
" I was, of course, familiar with the hemumbed and almost lohtaryie -reation of extreme cold; and once. When exjxad for -ome hour- in the midwinter of Baffins Bay. I hat
 paraty-i- of the eloctro-galvanie shock. But I harl treated the alopy compint of frexing as something like the tmber lishnmet of romance. I had evilence now to the contrary
" Bons-all and Monton, two of our -tonate-t merl. ("ame to me. begoing pernis-ion to sterp): "They were not cohl: the wind rli! not (anter them now: a little sher) wat all ther Wanterl. Prowntly Hans wat formel nearly -tifi umber a
 (w)dal hatelly atticulate. It latt. Johan Pbakr thetw himorlf











with ordore to come on after four hours' rest, I pushed ahead with William (iodfrer, who vohunteered to be ney companion. My aim was to mach the halfway tent, and thaw some iee and permmican before the others arrived. The floe was of herel iore athd the walking axertlent. I cannot tell how long it torok us to make the nine miles: for we were in a -trange sort of stupor, and had little apprehension of time It was probsably ahout four hours. We kept oursebters atwake hy imporing on cach other a continual articulation of Worrls: they must hate been incoherent enough. I recath there hours ats among the most wetehed I have erer gene through : we were neither of us in our right remses, and retained a very confucel recollection of what preceded our arrival at the tent. We both of us, however, remember a hear, who walked keisurely bofore us and tore up as ho wont a jumper that Mr. Me (iary had improvitently thrown off the day before. He tore it into shreds and rolled it into a ball. both never offeresl to interfere with our mrogers. I remember this, and with it a confused sentiment that our tent and toffabs rohes might probahly share the same fate. (borlfros. with whom the memory of hlis day's work maty atone for many fatult- of a hater time, had a better eye than mrself:
 Wat imdererning the same unceremonions treatment. I 1bomeht I E: that wo strule on stealily, and. for aught I know, without quableming our pater. Protathy onar approach saved the rantent- of the tent : for when we reached it the tent wat
 Inetalor rohse and pemmican into the show: we misered onty
 ahap: ath we racoliect. is that we had gerat difficulty


hreamy anm interse shmber. When I awoke, my long beame was a mase of ier forozen fast to the buffalo-rkin; ( iondfer lath to erat me ont with his jarklanife. Four days after om watpe. I fonum my woollen comfortable with a gondly -hare of my beat - till athering to it.

- Whe were able to melt water and get some soup comked before the reat of our partse arrised : it took them hat five honur- to walk the nine miles. Thes were doing welt, and, con-ilfering the eforam-tances, in wonderful -pirits. The day wan mot providentially windlo-s. with at clear sum. All engosed the reforehnent we hat ext ready. The erippled
 hammock-ridges wheh lat between we and the Pimnady 130\%



 up on theire eqtere. produed an areat mone like the voleanie
 (anmpare it to.



 15- becathe -purthto. Itappily the day wat wammel hy a


"(bar halt-mattiphtal. and wer fill half-aname on ther






Were fored to wakefulnes when their three minntes were orit. By eight in the evening we emerged from the floes. The sight of the Pinnately Berg reviverl us. Brandy, atn invaluathe reoture in emergener, had abready been served out in tablepponful toses. We now took a longer rest, and at lat but stouter dram, and reathed the Drig at 1 p.are, we hodieve without a hatt. I saty we belicre: and here perhaps i. the most deeded proof of our sufterings: wre were quite delirions, and hat ceased to entertain a sane apprehension of the eircomstanes about us. We moved on like men in a dreami. Our footmarks seen afterwards showed that we hat seered at here-line for the brig. It mant have been bye a cort of instinet, for it left no imprese on the memory. Bonsatl wa- sent stasereme aheat, and reatehed the loris, (iod know-how, for he had fallen repeaterily at the track-lines; hut he delivered with punctilions aerourater the meseages I hate unt hy him to 1)r. Hatyes. I thought mys. lf the somed-(-t of atl), for I went therough all the formulat of -anity, athe coan weatl the mattering deliritur of my eomrates when we got

 haw remembered for their atheurdity if my mind hat retamed it-hetames.
"Potorion amd Whipple same out to meet us about two mitare fom the hrig. Ther bronoht my dow-tedm, with the reworation I hat sernt for her Bonsalh. I do not remember thaf comming. Dr. Jlates entered with jublicion- onerey upon the treatment our eondition falled fors atministaring mor-

 (han of thore indication- of exhathorl ponsor which ried to



and two died in spite of ath our efforts. 'This rescuc party had bern out lor seventr-fwo hours. We had hatted in atl eight hours, half of onr number sterping at a time. We travefled bedween dighty and nincty miles, most of the way dragging a heavy sentge. The mean temperature of the whole time, including the warmest hours of three days, wats at $-1^{2} 2^{\prime}$. We had no water exeept at our two halts, and were at no time able to intermit vigorous "xerefe without freezing."

Dr. Kiane writes, April \& Tuestay:-
"Four days have pasted, and 1 am again at my record of failures, sound, but aching still in every joint. The reseued men are not out of danger, but their gratitude is very touching. Pray God that they may live!"

Shortly after these erents, the ship was visited by Lskimos, a 2 goorl-natured, childlike companys. Who dishamed such dantios offered loy the (rew as wheat heread, cormed pork, and humps of white sugar, hut gorged themselver on berf ant habbore and took opportunity to steal whateron they coutch lay their hamek on. Dr. Kane purehased all the walrus meat ther hat to spare atod some of their doges, entichmg them in return with nowllos and heads, and at treasume of oh! absk states. Following his experionee with the Lakimos, Dr. Kitne give an ammerng ancerdote of a seal hant.
"()n onte oreasion," hre writes, "whike working my way



 It lat. Whan I was withan lomg rifle-shor, fle antmat ente
 'Thar movement wat evilatly imemembent of me. for he
 Whe fir-t time. I formal hat I han a rival -rat-hanter in a Lates.



able patience and cold feet for a chance of nearer approach. - What should I do? -- the bear was doubtless worth more to me than the seat ; but the seal was now within shot, and the bear a hird in the bu-h! Besides, my bullet onee invested in the soal would leave me defenceles. I might be giving a dimeer to a bear, and saving myself for his desert.' These meditations were soon brought to a close; for a second movement of the seal so aroused my hunter's instincts that I pulled the trigger. My (ap alone exploded. Instantly with a floundering splash, the seat descended into the deep, and the bear, with three or four rapid teaps, stood disconsolatety by the place of his deseent. For a single moment we stared each other in the fare, and then, with that diseretion which is the better part of valor, the bear ran off in one direction, and I followed his example in the other."

Toward the ent of April, Dr. Kane had completed his preparations for his grand sledge journey to the north.
"It wes," he writes, "to loe the erowning experdition of the campaign to attain the uttime thute of the Cireenkend shore, measure the waste that hay het ween it and the unknown west, and soek resind the furthest cirele of the ire for an outlet to the myserious chananels herond.'
"The worst thought I hate now in setting out," writes Dre. Kan". Suril 26, "is that of the entire erew I cem leare hut two hehtiad in ahbe condition, and the doetor and Bonsalt are the
 four ahbehodied and six diablewl to keen) the brig: the eom-
 wit mpon the ice. Jightern wouls, thank (iowl! certainly not rightern boolics:
"I ann ering this time to follow the iec-ledt (Eix-ford) to the (ireat (ilarier of Humbroldt and there load up with pemmicen from our cathe of last (optober. From this point I expect to streted along the face of the glacier inclining to the wet of
north, and make an attempt to (rexs the ier of the Ameriean sike. Oneren smooth ier. hear this shore, I maty pasis to the wet, and enter the later ine tentation whose existenoer I ean infer with nearly pusition ereptainty. In this I may find an ontlet, amt dotemnine the state of thinge beyond the iserhogerel areat of this bey.
" I take with mepemmican and fread and tea, a canvas tent,
 hat hoern hailt on botert hy Mr. (Hhlorn. It is very light, of
 for molting show and makins tea, arranged of at 10 boil with (ither lame or -pirit-
$\because$ Fore instrments I hatre fine (iamber rextant. in uddition to my ordinary borkem-in-1 mancont, an artifaial horizon,
 senter My telecope and chonometor I carty on my ber--on."


 "Ther mont pioturespur pertion of the North (iseentamel













rock stood out in the hlarkest shadow. Just at the edge of the bright opening rose the dreamy ermblance of a "astle, flankerl with triple towers, completely isolated and defined. These were the 'Three Brother Turrets.'
"I was still more struck with another of the same sort, in the immediate neighborthood of my hatting ground beyond Sumy ( A orges, to the north of latitude $\mathbf{7} 99^{\circ}$. A single eriff of sereen stone marked by the shaty limestone that oner encased it, rears iterelf from a erumbled base of sundstones, like the bohdly chiselled rampart of an ancient city. It its northern extremity. on the brink of a deep ravine which has worn its way among the rums, there stands a solitary column or min-
 Plate Vendonse. Vet the koneth of the shaft abone is four lumdred and eighty freet : and it rise on a plinth or pedestal itself two hundred and righty foed high."

But by far the most remarkable feature of the Cireat White North risited hy Dr. Kane wits the "Cereat (ilarior of Humbohlt." "I will not attempt to do bettor ly florid desorip)tion," he writes. " Men ompy rhapoolize atone Niagara and
 line of eliff diminished to at well-poninted wedge in the per-
 in a lone rure from the low intarior, the facet- in front intencely illuminated hy the sum. But this- linc of cliff rose in -ohd glaser wall three humdered feet above the water-lewel, with an unknown. unfathomakle depth heiow it : and its

 dey- railroted travel from the Pole. The interior with whith

 dinnencions.
"It was in full -ight - the mighty meratal bridge which
eomberets the fwo continemts of Amerioa and Ciremband. I say contimonts, for (irernkant, howerer insulatorl it may ulti-
 powible axi- meenured from ( atpe Farewell to the line of
 gives a length of mome thath twatre handerel miles. nont materiatly hos than that of Austratia from its nomthem to jts southern eape. Imasine now the "entre of such at entinemt,
 sead of iore, that gatheres peremmal incereior from the water-sherd


 form and vather, rohling ioy ratarate and having at last reached the nowthen limit of the land that has beme it at e, poumg out a mishty frozon torment into whknown Aretic -1) ter.
 (erp)tion of at phenomomon like this (ifat (ilaciof. I hat
















Humbolidt (ilaciler

ploughing its way with imesistible march through the erust


By Nay $\mathrm{S}^{2}$, Dr. Kane became delirious and fainted every time he wat taken from the tent. "My comrades would kimdly persuade me that, even had I continued sound, we couk! not have procereded on our joumery. The snows were vert heary, and increasing as we went; some of the drifts perfectly impasiable, and the level floes often forir feet deep in riething shon. The ecury had atready broken out among the mene with symptoms like my own ; and Norton, our strongest man, wat hegiming to give way.
"If is the reverse of comfort to me that they shared my weaknes. Atl that I couk remember with pleasurable feeling is, that to fire hrave men, Morton, Rikey, Ifereey, Stephensen, and Hans, themselves scareely able to tratel, I owe my presweation. They carried me back by foreed marches, athor cathing ont stores ant India-rubber boat near Dallas Paty, in lat. $79^{\circ} 5^{\prime}$, long. (ityo."

Such wat the "fuilure" of the Crand Experlition!
Thu esente hamd of summer now extembed mueh-needed retief to the stricken (rew. Soaks beqan to appext and in sand harge mankeris that there wat no want of tresh meat, which worlsed wonders in the health of those -utiering with

 sem borough out the weleome verdure with marvellone raphdity.

Ior. Kanm: health imporoval, but he was obliged to give
 fremere in whim hereached the opperite eonat of (erimell Land, wheh herorverel as far at (ape lyaze. On June 1. Aorton lat the hrig with Itans, the E-kimo, for the pumpose
 (ilacier. The hatmes of the seateon remerered much of the ionextemely matat.
(on Sume 2ti. 1s.5月, Morton reachod the hold headkand of
 the high. wowhaging cliffe, that further proweres was impos--ibse. (limbtise from rock work, in the home of finding a

 the efocould reath into the unkewn moth . Ahout him the
 their wherortant motes with the thmolerous roll of the sed.
 tremeded to the (axt. hat far to the northwert. herond the open Watros of the chamel. at peak terminating a rame of moun-
 deal to thexe thom-and fore and this remote landmark

 10th of July: "-taterning be the sile of the limping dome


Itanmath the hrisi -ummer wat raphilly waming: there
















Two days later we find the entry : -
"In five days the epring tides come back: should we fail in passing with them, I think our fortumes are fixed. The voung ior hote a man this morning: it had a bat look, this, man-supporting dugust ice! The temperature never falls betow $25^{\circ}$; hut it is cold o' mights with no fire."
"A Agust 18, Friday," he writes, "rectuced our allowance of wood to six pounds a meal. This, among eighteen mouthr, is one-third of a pound of fued each. It aftows us coffee twice a clay, and soup once. Our fare hesides this is cotd pork boiled in quantity and caten as required. This sort of thing works hadly: but I must save coal for other emergencies. I see 'darkness ahead'!
"I inspected the ice again to-day. Bad! Bad! - I must look another winter in the face. I do not shrink from the thought, but, while we have a chance ahead, it is my first duty to have all thing': in readinese to meet it. It is horrible yes, that is the word - to look forward to another year of discase and darkenes to be met without fresh food and without fuel. I shoukd meet it with a more tempered sadness if I had no commades to think for and protect."
"Augnst 20. sunday" - Rest for all hands. The daily prater is no longer 'Lomb acepet our gratitude and blesis our undertaking," but, 'Lorel, ateopt our gratitude and restore us to our homes.' The iee shors no change ; after a hoat and foot jowney around the emtire southeastern corve of the bay. 110 signs! "

The future looked so shoomy, and Dr. Kane's apprehemsion for the ultimate safety of his party watiso gratere that he dotermined to orect as cairn in a (onnspiernous apot upeon at diff looking out upon the ify desert, and on a hroad fiece of rock the worts - -

$$
\begin{aligned}
& \text { ". Adramer }
\end{aligned}
$$



 betier－matiment than that of mere natit！that I phaced under



 up to datr．























$\qquad$



Dr. Kane hat made a careful study of the Eskimos, and had come to the wise conclusion that the ir form of habitations and their perculiar diet, minus their unthrift and filth, was the sufest and beot method of existence under the umusual circomstances of an Aretic winter. He therefore determined to borrow a leston from the natives and, as far as possible, turn the brig into an igloë. The quarter-deck was padded down with moss and turf, so as to form a nearly cold-proof covering. Below a space some eighteen feet square was packed from floor to eciling with imer waths of the same material. The iloor was carefully calked with plaster-of-Paris and dommon paste, covered a comple of inches deep with Manila oakum, and carpeted with canvas. A low mosslined tumel wids arranged to connect with the hokl, and diviled with as many doors and curtains as posibible to keep out the cold draughts.

Large banks of -now were aloo thrown up along the brig's sides fo kerep off the cold wind. These arduons kabours in the open air greatly improved the healih and firits of the men.

Intereourse with the E-kimos at the winter settlements of Etah and Inoatok, distant some thirty and serenty miles, leal tor at treaty hy which the E-kimos, for such presents as nexather. pisis and knives, ongaged to furnish walrus and fresh scal meat, (o) the -hip). Common hanting parties were organizend, and the white men were directed bev the natives where to find thes getme. To theses supplies of fresh meat. Kiane and his commpanions owred their satration, and the E.kimos on theip bart leamed to rexaded the while men as their beme-

 his life in an atternot to soneate a seal - whik ont in the iose
 ". It the same instant." writes Dr". Kime. "the hes- botanded forward, and, as I looked up, I saw (rowds of gray netsik,
the rough or hirpid -a of the whaler- di-porting in an open stai of water."

- I had hardly wodemed the -peetade when I saw that we hat parad upon a new belt of bee that was obviously unsafe. To the riaht and keft and front was one great expane of onowflowered ise. The neareot oflid floe was a mere lump, wheh stoon hike an i-land in the white level. Tro turn was impes--ithle: wr hat to keep) up) our gat. We urged on the dows with whip and voice, the ire rolling tike leathere bereath the sledgerrmorer- it wat more than a mile to the lump of solid iee. Frar gute to the poor bedste their utmost specel, and our voiers wroperoon hasined to sitence.
"This shepense burelieved hy action or offorts, was intolerable: we knew that there was no remedy hat to reach the floe and that ewerything depernded mon our doge and our doge alone. I monnent - eheek womk plange the whole (oncerns inte the latid tidewati: weresence of mind or

 lowkine at 11s with that -trange ermionity which seeme 10 ber
 fiity of them. herenthigh out of water, moming u- hy their *elformphaw enc!












I. I. HIYE,
make for the istand by eogging himself forward with his jackknife. In the meantime - a mere instant - I was floundering about with sledge, dogs, and lines, in a confused puddle around me.
" I succeeded in cutting poor Tood's lines and letting him scramble to the ice, for the poor fellow was drowning me with his piteous caresses, and made my way for the sledge ; but I found that it would not buoy me, and that I had no resource but to try the circumference of the hole. Around this I paddled faithfully, the miserable ice always yielding when my hopes of a lodgment were greatest. During this process, I chlarged my circle of operations to a very uncomfortable diameter, and was begiming to feel weaker after every effort. Hans, meanwhile, had reached the firm ice, and was on his knees, like a good Moravian, praying incolerently in English and Exkimo: at every fresh crushing-in of the ice he would ejaculate ‘Cool!' surd when I recommenced my paddling he recommeneed his prayers.
"I was nearly gone. My knife had been lost in cutting ont the dogs: and a spare one which I carried in my trouserspocket was so concloped in the wet skins that I could not reach it. I owed my extrication at last to a newly broken te:m-dog, who was still fast to the sledge and in struggling carried one of the rumnerse chock against the edge of the circle. All my previons attempts to we the sledge as a bridge had failect, for it broke through, to the murch greater injury of the jee. I felt it was a last chance. I threw myself on my back, No at to lerem at much as posible my weight, and placed the natpe of my neek against the run or colge of the iee ; then with cantion slowly bent my leg, and, placing the ball of my moecesined foot against the sledge, I pressed steadily against the rumer, listening to the half-yielding erumeth of the ice beneath.
"Presently I felt that my head was pillowed by the ies,
and that my wet fur jumper was stiding up the surface. Next reme my -houkher- they were fairly on. (One more
 resthent the ief-flow, and was frictioned by Hans with fightful


 till we (ean conne eatd chat them out.
' On reachang the shif) after a twelve-mile trot. I found - much of romfort and warm welcome that I forgot my failure. Tha fire was lit up, and one of our few himk -knghtered forthwith. It is with reat eratitude that I kook batek upone 1115.
 many roverere which rematin to us."
 rothment: thes hath hat a hitter experience -trughong for hame than fonm monthe amone the hammorks and -now -trifts. and were in a phitiahle conntition.



 Whation at they hat gente throusho the warmath of the cathin









 -tal and walrav-ln"at.

To Dr．Kiances determination to stand by the brig was due the preservation of the entire parte，for had he beern less firm in his resolution，the entire experdition woukd un－ denitembly have perished on the iee．
＂Folmary close，＂writes the heroic leader；＂thank Ciod the latper of its twenty－reght days！should the thirty－one of the eoming March not drag us further downwarl，we maty hope for a sueceseful close to this dreary drama．By April 10 We shoukd have seals：and when they come，if we remain to Welcome them，we can call onredres saved．But a fair review of our properects telle me that I must look the lion in the fare The reury is stexdily geaning on ats．I do my leest to sus－ tain the more deperate cases．but as fast as I partially buid up）one，another is stricken down．Of the six wotkers of our part！，as 1 counterl them a month ago，two are mable to do ont－deor work，and the remaining foru divitle the duty of the－hip among them．Hans musters his remaining energies to conderat the hunt．Petersen is his disheartened，moping asistant．The other 1 wo，Bonsall and mysolf，have all the daty offices of houschold and hospital．
＂We（hop）five large sacks of iere，wht six fathoms of cight－ inco hawsor inte junks of a froot cach，serve out the meat when we haw it，hate at the molasese and hew out with crow－hat athe axe the pork and dried apples；pass up the foul shop amb cleansing－of our dormitorre and in a word，cook， seullimnize atu！：ittemel the siek．
＂．Ahden！w this．for fix nights rmming．I have kept watch
 without changing me dothes．hat carofully waking evory homer to notor limmometers．＂

The enforing－endmed during the month of Wareh ate painfolly jnterestines．Itat Dr．Kiturs strength given way
 spirit，must have perished．Ite attributes his comparation
immunity from seury to "rat-ooup." These rodents, surviving the bleak winter. hat overrun the ship : but he was the only man who woald eat them. Ilating no fuel, the only methot of heating was the E-kime mothoel of lampe: the soot and fatty rathon blacking (rverything on which it rexted.

Heroie methosk were made to keep in touch with the friendly nativer, and Hans, on nope than one ofecasion, sated the life of the party ! seeruring fred meat from them.

To add to their troublecs. two men attempterl to desert at this eritical juncture: only one sueferded-Ciodfrey - Who joined the Ekimos. But strange at it may serem, thit nath returned with a supply of meat for his deaperate combrates. while refusing to retiurn on hoard -hip). Fearing (rotfres might have done bortily harm to Han- who wat aberont. 1)r. Kithe dotermined to follow thre netn athe hring him batck. To this and he mate a fommer along with a doe - leatere of
 lii-man.

There wat no other alternative hat to merpare for abme doninge the forouct, as early in the emping at the weather
 Epermatik. Before the beat- eond be tran- fermed to the
 the mote of the partw were hedridden atm mathle to move



 Ijumastik.





of the rumners of the Hope's shedge broke through, and, but fore the strengeth and presence of mind of (hlsen, the boat wouk have gone under. Ho sat the ioe give way, and, hy a vioknt exerecise of strength, passed a (ap)stan-har under the sedere, and thus hore the load till it was hauted on to safer iere. Ho was a very powerful man, and might have done this without injuring himself, but it would seem his footing gave way unker him, foremg him to make a still more desperate effort to catricate himself. It cost him his life; he died three days afterwarts.
"l was hringing down Cieorge stephemson from the stekstation, amo. my sledge heing heavily laden, I had just eroseal, with some anxiets, near the spot at whe the accident occurred. A little way berond we met Mr. Ohtsen, seated upon a lump of iee and very pake. He pointed to the eamp about three mike farther on, and told us in a faint voiee, that he had not detained the parte: he 'had a little eramp) in the small of his hack, hut wouk soon be better.
"I put him at onee in stephenson's phace, and drove him on to the Fath. There he was phaced in the stern sherets of the hoat, and woll muffed up in our heot huffalo robers. Duting all that night he was assiduousty attended by I Dr. H:yes: hat he sank rapidly. His symptoms had from the first a ceretain obseure but fatal resemblance to our winter's totamus amd filled us with forebodings."

The streneth of the strieken band was graduatly reaching it - minimum. 'The exertion of hailing the meseaworthy boats recpuired all the strength left to the enfeented party. There breathed hearity, their limbs swolled, and they suffered from innommat, 8 o that eath day rendered therir weakened offorts fose momising. It this erisis of their fortunes. they saw a larore seal floating on a small pateh of iere and sommingly : Aた品)
"Trembling with anxiety" writes Dr, Kane, "we prepared
to erawl down upon him. Potersen, with a large English rifle, wat stationed in the bow, and stockings were drawn
 ment beeame so intense that the men coukd hardly keeps stroke. He wat not asidep) ; for he reared his head when we were ahmot within rifle-siont: and to this day I coan remomber the hard, careworn, ahmost dexparing expression of the ments thin faeses as they sat him mover their thin lives depernter on liss rapture. I deppesced my hamel nervoustry ats a sigmat for l'eteresen to fire. Mes iaty hame upon his oar, and the boat seemed to mo within certain range. Looking at Petersen, I saw that the poor follow was paralysed by his anxide trying vainly to obtain a rest for his gem against the eatwater of the boat. 'The seal rose on his fore filippere, gazed at us for a monemt with frightemed cominsity, and meiled himself for a phonge. At that instant, smultaneonely with the arack of our rifte, he retaxed hise kong kengh on the iere and at the vers brink of the water, his heal fell hedplew to one side.

 asconding to his own impulse, ther urged their boter upon thes flows. I erowil of hathes seized the seal, :and home lime up to salfer iere. 'The mern seemed halle reaty. I hated not readized low math wre were reduced ley abselute famine. 'They ram




i fow days hator the familiar cadrone of at "hathoce" foll







tian voice which had greeted our return to the work. How we all stood up and peered into the distant nooks; and how the ery came to us again, just as, having seen nothing, we were doubting whether the whole was not a drean; and them how, with long sweeps, the white ash cracking under the spring of the rowers, we stook for the cape that the sound proceeded from, and how nervousty we scamed the green spot- which our experienee, grown now into instinct, told us wouk be the likely camping ground of wayfarer. By-and-by -for we must have been pulling a good half hour - the single mast of a smath shatlop showed itself; and Petersen, who had been very quiet and grave, burst out into an incoherent fit of erving. only relieved by broken exclamations of minglew Danish and Lenglish. "Tis the I pernavik oik-boat! the Fratuk Flaischer ! (arlie Mossen, the assistant cooper, must he on his roal to Kingatok for bubler. The Mariane (the one anmal thip) hat come, and ('arlie NI sen -' and here he did it all over again, gubping down his words and wringing his hands."

Another halt a night's rest, and the settlement was reacheel, where a generenas weleome awaited the weary explorers.
"For cighty-four days." sars Kane. "we had lived in the open air. ')ur hahite were harld and weather-worn. We coukt not remain within the four walls of a house without a diatreswing sense of suffereation. But we drank coffec that nigh! before many a hoopitable theredold, and listened again and again to the hyom of wedeons, which, sung by many whisco. greeterd our deliserance:

The Damish rowel was not rewty for her homeward joumey till the the of Sentember. ( m the fith. Dr. Kiane and his party
 to sonver them to the shetlund Islanls: on the 11th the
 and later at Diseo. Where the Moriane remained a few days.
 Congres antherizing the seeretary of the Nabe to de-patel a - -utable steaner and tomber for the wedef of Dr. Kime. The Relense and dectic wore acreordingly equippent and put in command of Lieutenant Hartotcin, atcomp:anien hy a hother of Dr. Kane. By July ., the relief experdition hat rearlient Lievely, Fle of Diseo, (iremband, and from this point Lientwant Hart-tein say in a letter to the serectary of the Navy: " To atoid further risk of human life, in a starech so extremely hazarelona. I would sugent the imporprioty of making ans (fforte to reliewe u- if we should not return: fereling combident that we -hall he ahde to atermpli-h all neerestary for ond own releare under the most extramedinary circumstances.

Hating foreen a parage through the elosedy packed iee inthe the nowth water, they proceedent to examine the eroat from
 and sutherland F lamd.

I few stome heapeal thenther hear Point Pedlam gave atintane of Kame's having been there, hat no wher ehow
 (ab)e Hatherton and Littoton Hand, finally reathing a proint -ome fiftern milow nowthwot of (ap) . Vexamber. Itere they were -urpriseld to fall in with athe E-kimes, in wheme prowaton were fomed certain artiog kown to have the Longen (t) 1)r. Kime Atter diligent inguirio. they learmen of the athandmoment of the ship and the retreat to the -anth of Dr. Kami- parts.







drifted so far to the south that Lievely was nearer than Lpernarik, and Captain Hartstein determined to put in there. We had a heary gale the night after we left the ice; but so glad were we all to get clear of it, that I heard no complaint- about rough weather. It cleared away beautifully towards morning, and we were all on the deck, adniring the clear water, and the fantastic shapes of the waterwashed iceberges. .tll hands were in high enirits; the gate hath bown in the right direction. and in a few hour- we shoukd bee in Lievely: The rock- of its land-locked harbor were alreaty in sight. Wia were diseussing gar news by anticipation, when the man in the crow's nest cried out: it brig in the harbor!' and the next minute, before we had time to congratulate each other on the chance of sending letters home, that she had hoisted American colors - a delicate compliment, we thought, on the part of our friends, the Danes. I believe our captain was about to return it, when to our surprise, the hoisted another flag, the veritable one which hat gons out with the Adrance, bearing the name of Mr. Henry (irimell. It the same moment, two boats were seen rounding the point, and pulling towarl- wt. Disl they montain our low friends? Yos, the sailors had settled that. -Those are Vankere, sir; no Danes exer feathered their vars that way:
"For tho-e who had friende among the miwing party, the fow minuto that followed were of bitter anxiety: for the men in the heats were long-herarded and weather-theaten; there haw strange wild costumes : there was no porsibility of rarognition."

In Dr. Kanes: "Pasemtly we were alomexte. In officer whem I shath wer suncmber ax at cherishoel frimul. ('aptain Hamtain,
 K:an"." and with the 'low! that followed, the rigeine wat
mamed by our countrymen, and cheers weleomed us back to the sodial work of kove which they represented."

Dr. Kiane and his party reachoel Now lork, October 11, 15.5. and reeeived an enthutiatice weleome, after an absence of thirty monthe. Hononis of the mo-t flattering kind awatenl him on boothe siles of the Atlantic, but his health War completely honken be the trials of his wonderful journey. On Pothuary 16, 1 4.5 . he died at Hasana, in the thirtysoventh trax of his age





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## CHAPTER XII

Dr. Hayes's expedition. Winter quarters at Port Foulke. - Cireenland coast. - Death of somntag.-Dr. Itayes.s journer. - Attempt to cross smith sound. - Hayes's farthest. - "Open Polar Sea." - Homeward bound.

Lv 1860, Dr. Hayes, who had accompanied the second Grimell expedition and rendered much valuable service to Dr. Kane and his parts, onee more saited from Imerica for the purpose of eompleting the surver of the north eoasts of Greenland and (irimeli Land and to make such explorations as he mioht find practicable in the direction of the North Pole.
" My proposed hase of operations," writes Dr. Hayes, "was (itinnell Land, which I had diseovered on my former vorage and had personally traced beyond latitude $80^{\circ}$, far enongh to satiofy that it was avaikahle for my design."

On the morming of Juls-s, $1 \times 60$, the C hated stutex was fairly on her way, and, by July 30. Dr. Haye- had the satisfaction of beine ones more within the Aretic cerele.
" Wr had some romgh handling in Daris" strait," he writes. " (once I thought we had surely eome inglomionsly to grief. Whe were rumning before the wind and fightings a wretehed doss-sed under reefed fore and mainsail and jib, when the fore-rait was carrod away: - down eame everythimg to the deak: and there wat loft mot astiteh of ranvoason the schooners hut the lumbering mainsail. It was a mirache that we did not beoweh to and gio to the bottom. Nothing sareve us but a steady hand at the helm.

After sereral narrow exeapes in the ien fiekl. the Inted s'lutes was at length compelled to take up her winter (puarters 2.3.)
at Port Foulkr. on the (ireentand rodst, about twonty mites to the south of Remsodace harbour. An abomdant commossariat, amply supplied by fresh meat, kept up the general heath of the party during the kong night, and they escaped somesy, which had prosed so fatat to Dr. Kianes erem.

I great watastrophe was the death by freceing of somatag, the attronomar, who had beorn a valuable member of br. Kators expedition, and a much-behoved friend of Dr. Hatyes. Acoompaniod by Hans: Mondrik, he had started on a sledge journey to the Etah E.amo. (On Fehntary 1, Dr. Hates writes:
" llans hat given me the story of his joumery, and I sit down te reeord it with very painful emotions. The travellers rounded ('ape Akexander without diffeculty, finding the ice soliel; they did not halt until they had rearehed suthertand Lstand, where they bailt a show hat and rexted for a fex hours. Contimume theneedesw the coast, they sought the Exqumatux at sorfalik without sucerss. The nativerhat at that plate
 show: and, after locing well rested, they sot ont diexetly for Northumbertamb Iskand, having eromeluted that it wat nextess to sork konger for natives on the north side of the sound. Ther hat prowered on their combs about four or five miles

 of the dhg- 10 with himself with the examere. The tamgling








time from the northeast, and this, according to Hans, cansed sometag to seek the hut without stopping to change his wet clothing. It first he ran beride the sledge, and thus guarded against danger ; but after a whike he rodr, and when they halted at Sorfalik, Hans diseovered that his companion was stiff and speechlese. Assisting him into the hut with all por-ible despateh, Hans states that he removed the wet and frozen clothing, and placed Sonntag in the slecping-bag. He next gave him some brandy which he found in a fluts on the sledge; and, having tightly closed the hot, he lighted the alrohol lamp, for the double purpose of clevating the temperature and making some eoffee ; but all of his effort: were matailing, ant, after remaining for nearly a day unconserious, Fomntag dical. He did not peak after reachimg the hat, and loft no message of any kind. Ifter closing up the mouth of the hut, so that the body might not be disturberl by bears or foxes. Ifans again set out southward, and reached Northumberland I-land without inconvenience."

Early in April. 1861, Dr. Tayer loft the ship "to phunge into the wilkernes.." Itaving previously aseortained that an abluance along the Creenlant shore was utterly imposible, he reselved to (roses the sound, and to try his fortunes along ths crast of (irimedll Land.
"By" winding to the right and left," he writer, "and hes oceasiomally retracing our -tops. we manader to get over the first fow miles without much embarrasoment, but further on the trach wat rometh, past deweription. I ean compare it to


 fillerl m, 10 some extent with driftex show:"
 of twanto-fise dat- ther had not ret reathe 1 halforat acrow the - mant.

Tyy party are in a vory corry rombition，＂writes Dr．
 another hew－prainel his ankle；another has gastritis；an－ other a frotem tow ：ancl all are thomonghly overwhehner with lationte．The ment dorot atand it ar well as the doge．＂






 thu－：• Yom mieht a－well try to eron－the eity of New York




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"And now," writes Dr. Hayes, "my journey was ended, and I had mothing to do but make my way hack to Port Foulke. The advancing season, the rapidity with which the that was taking place, the certainty that the open water was eating into smith sound as well as through l3affin Bay from the south, as through Kemedy Chamel from the north, thus endangering niny return across to the (ireenland shore, warned me that I lad lingered long enough.
"It now only remained for us to plant our flag in token of our discovers, and to deposit a record proof of our presence. The flags were tied to the whip-lash, and sumpended between two tall rocke, and while we were building a cairn, they were allowed to flutter in the breere; then, traring a kaf from my notchook, I wrote on it a follows:-
"rThis point, the most northern land that has cerer been rearhed, wat risited hy the undersigned. May 1sth, 19th 18611 , acompanied hy (erorge T. Kinorr, travelling dow-dedge. We arrived here after a toikeme march of forty-xix days from my winter harbor near (ape Alexander, at the mouth of simith sound. My observations place us in latitude ob $1^{\circ}$ :3.5', longitude $70^{\circ} 300^{\prime} \mathbb{W}$. Our further progerese was -topped by rotemice and aratk. Licmody (hammel appears to expand into the Polar Ba-in : and, satisfiel that it is marigable at leant during the monthe of July . August, and september, 1 go homes to my winter hathor, to mahe another trial to get through smith sound with my veserel, after the iow hroak: up 1his: summer.
"‘’Aay 19, 1861.'"
"- 1. I. Hiyes.
"I çuit the place with reluctance." he writes. "It posiressed a fascination for me, and it was with no ordinary semsations that I comtemplated my situation, with one solitary companion, in that hitherto untrodden deate : while ms ncarness to the earth's axis, the consciousines of standing
upon land beyond the limits of previou- observations, the reflection- wheh cersed my mind rerpecting the vast ofean which lay - feread out before mes, the thought that these ioer girelled water- where dwell human beinge of an menown rure. Were eirematance calculated to invert the repy air with mystery. to deepen the curiosity, and to -trengethen the resor lation to peremere in my determination to sail upon this - - at and to explore its further limits; athl az I recalleal the strugehes which hat been matle to reach this sea. - through the iereand atror- the iere he ernerations of hrato ment it *remed a- if the -pirits of theoe ohd Winthie- cathe to entorn-
 that I had within my gratp) 'the great and motathe thinge Which had in-pireal the zeal of stmely Fobhohere and that I






 (xamination of his -hip). Dr. Hayr- fomme -he had ereatly







 atain Wir- - Hr" fo -ink hor."



and by August 10 she was in latitude $7 t^{\circ} 19^{\prime}$, longitude $66^{\circ}$. By the 12th they made land which proved to be Horee's Head, and three days later found the schooner at anchor in U'pernavik harbour.
"While the chain was yet clinking in the hawse-hole," writes Dr. Hayes, "an old Dane, drested in seat-skins, and porsessing a small stock of English and a large stork of articles to trade, pulled off to us with an Eskimo (rant, and with little ceremony, clambered over the gangway. Kinorr met him, and, without any ceremony at all, demanded the news.
"'Oh! dere's plenty news!’
"'Out with it, man! What is it"'
"'(Oh! de suat states dey go agin de Nort' States, and dere's plenty fight!’
"I heard the answer, and wondering what strange complication of European polities had kindted another ('ontinental war, catted this Polar Emmeus to the quarter deck. Had he any news from America?
"' ()h! 'tis 'merica me speak! De sout' staters you see? and dere's plenty fight!
"Yos, I did see! but I did not believe that he told the truth, and awaited letters which I knew must have come out with the Dani-h vesest, and which were immediately sent for to the (eovernment Howe."

The eondition of the schoomer neecsaitaten putting in at Hahifax for repairs and, for days after teatring the made the Bowton Lighlits. "Wre pickerl up) a pilot." writes Dr. Haye-." out of the thickest the that I have ever seen somith
 As the night wore on the wind foll atway ahment to (eatm: the fog thickenet mere and mores. if that were posexhle. at we sageed along ower the dead watere twoud the anchorage The night was fillerl with an ofmerestere elown. The light: hanging at the mat-heads of the vessels which we pareod had
the whetly whmore of tapers huming in atharnel-house. Wresay no roxel hoving but oun own, and aven those which lay at anchors aromed like bhantom ships floating in the murky
 presed. eren in times of real danger."
"I kanded on Long Wharf," he continuse, "and found mys wat into state street. Two or there figures were moting through the thick vapors. and their soldman fort-fall broke the worse than Aretie stilhnes. I reached Wa-hington Steret, and walked ansiously wortward. I memolog paseal me. I -rizal a paper, and tho fir-t thing which ratught my ero was ther arcount of the Phall- - Bhaff hattro. in which hat fallen many of the mohles *onに of 引o-ton: and it -eremed as if the very air

 the foume of a frimul, Inat I thought it likely that he was not



 fomml my Wat on buaxl acain throngh the dull. (hall foge."




 of IIMilk Bar.


## CH.APTER NIII

Charle Francis Hall. - Early life. - Interest in fate of Sir John Frankin. - First journey to Greentand. - Diseorery of Fro-bi-her redies. - Experieneres and sturty of the Ekimos. - Second journer: - Delays and disappointments. - Sledging trips. - King Willianis Land at last. - Franklin redies. - Roturn of Hall to United ritates. - Polaris experlition. - Peaches high northing. Hall's stode journes. - Return and death. - Podaris winters. No creape.-Poluris is wrecked. - Part of erew adrift on the ice-floer. IRcmainder buid winter hut. - In mal rectue and return to Linited sitates.

Tine personality of ('harles Francis Hall is sinqularly intresting. Born in Pochester, New Hampshire, in 1s21, ho recerived a common school education and pursucd the vocation of hacksmith, joumalist, stationer, sum cherator.
 interested in the fate of sir Johen Franklin, and jor over nine
 of tha Iranklin sarelt expeditims. [neonvinced hy the admirable report of ('aptain M' (lintork in In S' of the death of Franklin atel the fato of lif-ampanims. IFall maintamer the minion that sarvivors of the unforthate experlition must
 Sy the whl of pultice suharription- and the liheral matemage




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succesful in the main object of his undertaking (his proposed journes to King Willith Land and spent the best part of two year- mear Frobisher Bat, where he aecuired much knowl-
 covered at cuantity of relies left by Frobisher"s expedition of 1.57 1.50 s
()f the first traditionary history gained from the Exkimos relatise to Frohisher's experlition, Hall says in notes under date of Apmil !. 1 (九) 1 :
"Among the traditions hathed down from one generation to atoother, there i- thi- : that many very many years ago, -onne white men built a ship on one of the i-land- of Frobisher IBay and went altay.
"I think I (:an ofe thronteh this in this way: Frobisher. in fors. asombled a laree part of his fleeet in what he called "(omates of Wiarwick sonand" said to be in that has bedow 15- when a council wat hed on the 1st of August. at which it was detemmed to semd all pervons and thinge on thore upon
 proclatmed. hes armel of trumpet. for the guilane of the
 in the liatory, the comprany did mot tarre here lones. hat de-



 hifury - conmpans and that hame the Inmait trandition?" In a







about sixty rods distant, the point to which we first dieected our step) : on reachimg the high land after kating the boat.

- I was *ereral fathoms in atrance of Koo-on-le-arng, hastening on, being desirous to make as externded as search as the briof remaining daydight would allow, when, lifting my exes from the ground near nue, I disoovered, at emsiderable distance ahead, an object of an monshal aphearanee. But a socond look satisfied me that what I saw wrow -imply stones scattered about and covered with hatk moss. I continued nly couree, kerping as near the coat as posible. I wat now nearing the epot where I had first deseried the hatek object. It again met my view : and my orgimal thought on first seeme it resumed at once the diecentenes in my mind. I hastencel to the ebot. ' (ireat (iond! Then hast rextarked me in my seareln! Was the sentiment that eame overwhelmingly into my thankful soul. ()n eating my rex all atround, *ecing emol feeling the charactere mos-stued, fore some of the pieces I sats had pellicles of black mose on theme of the rethes before and under me, I folt as - I camot toll what me ferl-



I more thoroweh searel in the rieinity umberaken at a later period resulted in the finding of flimt-otone: fresementof the, ghas, pottery, an excavation which Hall calleal ath ahandoned mine the ruins of three -tome ! mase one of whele
 having beron erextot on at fommtation of -tonce cemmental tor
 Weather-worn. Which " theret of there centurion hat fimmly sermented to the sand amb stonse in which it harl kin."

It will be remomboreal that of the omo hamelrel ment -ant out from Eneland with Forblishor in 1.57. the matorive wore





 in commertion with other sincumbtancors, ovidencerl the exact
 tain ILall preanted mand of the relies ler bromeht home to




 matathel stath of the nation, Mhatan into the horrors of a

 1-it. amb i: Jughet wan lambal, with his modere equij)ment,





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[^2]W:As-pent at Fort Ilope, where he at last suceeded in secur ing Wkino aid for the final attempt to reach King William Land. Ile statten in March, lstes, in company with ten Whimos and doge sedges.
('ros-inw Rat Peminsula to ('ommittee IBay and tion Boothat Isthmes, the party reacherl James Rosis Sitrait, distant some sisty miles from King William Land. Here he lad liffieulty in persuating the mative to eontimue but at Nimpsen Iskad the suceres of a mationd hant restored their geod hmmour,

 hride as his native eompanions coukl not be persuaded to linger in such a desulate coluntry

Cpon his retmon to Popmber Bay, (aptam Hall, in a lettor to Mr. Ihary (immedl, datad Jme 20, 1N69, writes in part:-
"Ther result of my stefge jomrney to King William"s Land may he summed up thus: None of cir John Franklin's companions oror pathof or diod on Xontreal Ishand. It was late in July, Lsts, that (rozier and his parte of about forty or forts-fien pased down the west eonat of King Willian's Lamel in the vicinty of ('ape Heradme. 'The party was draggine two slofges on the seatere, wheh wes nealy in its last

 ath I (amp) matrerial. Just hefore ( 'rozior and parts arrised

 Lakimo math, whe wew of the native party, gave me math -ant. Wat deypy interestinge. information. Fome of it stimed





('rozier and his party is to be found in the skeleton which Mi (hintock diseovered a little below, to the southward and eastward of (ape Herschet. This was never founel by the natives. The next trace is a camping place on the sea-shore of King Nilliam's Land, about three miles eastward of Pfoffer River, where two men died and received Christian (?) hurial. It this place fish-bones were found hy the natives. which showed them that ('rozier and his party had caudht While there a toperies of fish execllent for food, with which the seat there abounds. The next trace of this party oceurs about five or six mikes castward, on a long point of King Witliam's Land. where one man died and was buried. Then about south-ioutheast two and a half miles further, the next trace oceurs on Tokld's Islet, where the remains of five men lie. The nest certain trace of this parter is on the west side of the islet, west of Point Richardson, on some low land that is an iskand or part of the mainkand, as the tide may he. Hore the awning-covered boat and the remains of about thirty or thirtr-five of Crozier's party were found hy the native Poo-Tettat, of whom sir John Ros has given a deseription in the aceount of his voyare in the l'ictory in $1 \times 29$ '34. In the epring of $18+9$, a large tent was found be the native whem I saw, the floor of which was complotely covered with the rematins of white men.
"(Ion hy were two grates. This tent was a little way inland from the head of Terror Baty. In the sprine of $1 \times t 1$, when the -new wat neaty all gone an lakimo party, eonducerd hy a native well known throughout the northern regions, foumel two hoats, with many skeletons in and about theme. Once of these boats hath beem previously found hy If ( lintock: the other was found lying from at quatere to at half mile dittant, amb mut hate heren completely entomber in show at the time M' (lintork's parties were theres. or there most asouredly would have seen it. In and ahout this beat,
beride the ekedeton- alluded to. were found many redies. mont
 merated as having bern foume in the hoat he discovered. I tried harel to exerompli-h iar more than I did. hat not one of the compeany would on ally exerount whaterere comerent io remain with me in that conntry and make a summere search orer that i-hand. which, from information I had guined from the natives. I had reaten to -uppeere wowd he sewarled bex the diseovery of the whote of the manneript reerem that hand heen aremumbaterl in that great experlitione whe hat been
 Tietory: Knowing in I now do the chatacter of the E-kimes in that part of the comery in wheh King Willimn's Lam is -ituated. I camot womler at her Wame the Papol-e Baer native for thair reflual to remain there at 1 dwirent. It is




 mand of the hernic ('rozior anme time after lamtine on Kinge Williams Land? Could I and my berty with reamatko


 dition. hat have gathered up and chitwhend the remain- of








opern and roblowl the dearl, leaving them expeneell to the ravages of wild heatt. On Todd': Indand, the remains of five men were net buried: but, after the savages had robbed them of "exery article that could be turmed to account for their use, thoin dogs were allowel to finist the di-gusting work. The native who conducted my native party in its search over King Milliam's Land is the same individual who gave Dr. Rae the firet intornation alout white men having died to the westward of where he (Dr. Race) then was (Pelly Bay) in the -pring of 1s.). His name is In-hook-poo-zhe-jook, and he is a native of Ňeiteliille a very great traveller and very intelligent. He is, in fact, a walking history of the fate of sir Joln Franklin': Cxperlition. This native l met when within one day's sicuge journey of King William's Land - off Peint Dryden ; and after stopping a fow days among his people, he acemmpanied me to the phaces I risited on and about King Willian's Land.
"I combld have readily gathered quantition - a very great varicty of relises of sir John Franklin's expeedition, for they are now powesed he native all over the Aretic Reqions that I visitol or heard of -- from Pomel': Bay to Darkenzio River. 1- it was. I had to be satisfiod with taking mon one ilempos ahmut 12.5 pound total weiglit of relies from natiers about Kine Willian:- Lancl. some of these I will emmerate:
 of : b beat. clinker-huilt and copper-fuatemed. This part of a


 Vmathot Pa-ater -hip. t. (lhemmenter-hex. with its mum-


 theor sheete, as well at on mont everything else that came
from the Northwest Pasage ship, are numerons stamps of the (Queen's broad arrow. 6. Mahogany writing-deck, elaborately finished and bound in brass. T. Many pieces of sibverphate forks, and poons, bearing crests and initial of the owners. 8. Parts of watehes. 9. Kinives and very many other thinge which you. Mr. Grimetl, and others interested in the fate of the Franklin Expedition, will take a sad interest in inspecting on their arrival in the states. One entire skeleton I have brought to the United states."

Hall, some time after his return, placed the carefully preserved remains in charge of Mr. Brevoort, of Broolihen, Who transerered them to Aelmiral Ingtefiedd. R, N., to be forwarded to Fingland, subsequently (he the phug of a tooth) the skeleton was identified as the remeans of Lientenant Veconte, of the Erebus.

The same year that the Eicbus and Teror were abandoned, one of them eonsummated the (ireat Northwes Pa-age havBne five men aboard. The evidence of the exact number is eireumstantial. Exerything ahout this Nonthwest Pasage

 !e9 W., (atty in the epring of $18 t 9$, frozen in the midst of a flow of omty one winter's formation.

With the maviling eomserousmest hat he contel aceome phish mothinse further of receareh in the Frozen Rowions. (:ap)tain IEall hatl now to think of a return to the I nited states; Pumphing there to collate and pubtioh the reatt of hain pootraterl Aretio experienere, then to make his home meditaterk
 Wibliam": Lamd.

In reward to his phans he writes:

- I henge to start next epring with at verect for donc- somend,


for the goal of my ambition, the North Pole. I to hope to be able to resume show-hut and tent eneampment very near the Pole he the latter part of 1870 , and much nearer, indeed at the sery Pole, in the spring following, to wit, in 1871. There is no use in man's saying, it eamot be done - that the North Pok is beyond our reach. By judicious plans, and by having a carefully selected company, I trust with a Heavenprotecting care to reach it in less time, and with far loss mental anxieties, than I have experienced to get to King William's Land. I have always: held to the opinion that whoeser woukd lead the way there should first have years of experience among the wild natives of the Xorth : and this is one of my reason for sulanitting to searching so long for the lost ones of Franklin": Expedition."

The expression of surch purposer, including that of a subsequent return to King William's Land, is eertainly remarkable, as coming from one whose slefge journeys only, during the five rears which now clowed upon him, exceeded the aqgereate of four thensand miles. A willingnes " to resume show-hut and tent" would seem explicable only he suppering that next to the lofty ideas with which his mind enthu-sa-tically mereted coresthing Aretie. was the extreme of a strange frascination with the uncouth life he had been leading. He sats himedi, at alout thi- same late, that there was nothing in the way of food in which the natives delighterl that he did mot delieht in. and that this mat appear strange to some, !nat wa- true. If haul that day "a grand geod feat on the kind of meat he had been longine for the deer killed lat fall: rotten, strong. and stinkinge and for these qualitios. "xeellent for Hnnuit- and fror the writer."

Hatl. ateonip:animl by his faithful Ekimo frimds. foe. Hemmah. and her adopted chith Pun-na, returned to Now



Whild droppod their native dresese and put on those of a avilized land.

Inmerliately upon his return to the statos, ('ajetain Hafl
 plan for an experlition to the $P^{\prime}$ ble. By untiring pereonal efforts and the -upport of enthnsiatie friende. he -ucereederl in engaging the attention of (ongres. Which atuthorized "An Experlition to the North Poke, the only eme in the hi-tory of the nation," Fifty thou-and dollar- Wat appropriated for
 oughly fitterl ont at ath experner of ninety thensand more.

- Serer wat an Aretif exjerlition more romplately fited


The Potoris, in combuate of (aptain Hall. with ㄷ. (). Buddington as aiking-matorr. Dr. Fanil Beract in dharge of the refontifie work, and twentr-fome whers, -ailed from Vew




















Fiviral. of ('aprus Mad

By the 2sth of reptember, the final preparations for this journey were complate. The dogs were selected and carefully fed. The Eskimos harl put the sledge in order, and those selected to accompany (aptain Hatl were busy making their pereonal preparations. Not until the 10 th of ()etober was the -tart finally made, Hall being aceompanied by Mr. (hester and the Eskimos, Joe and Hans.
(hn the 2tth of October, the sledge party returned, having reached as far north as (ape Brevoort, $82^{\circ} \mathrm{N}$. They had all been well, churing their two weck- absence, with the exeeption of (aptain Hall, who had complained that he did not feel his wonted rigour and endurance ; and for the last three days had not felt at all wedl.

It had frequently expresed his surprise during the journey that he was not able to run before the skeds and encourage the dogs, as on former expeditions, hat had bern compelled to kerep on the sted. (aptain Hall had not been aboard hatf an hour before be was taken violently ill, and by 8 p.r. his entire left side was paralyzed as the result of an apoplectio attack. By the erening of the 25th, he was delirious; on November $\bar{r}$, he sank into a comatose state, hreathing heavily; he remained in this condition until 3: 2.5 A.s. of the whe when he died.

The -ad news wa- broken to the ships company, and none frlt his lowe moer than the Ekkinos, Joe and Hannah, who hed twen his constant companions for neary ten years. Theoce fathind irmols lat looked upon lim an a father, and were now heart-lnoken.
()n Nowember 11. ('aptain Cieorge Tyon. asistant navigater of the experdition, wrote in his diary: -
". Is we went to the erave this morninge the coffin hated
 imen flag, we wallked in parecosion. I walked on with my lantern a lithe in atrance: then came the captain and
officers, the engineer, Dr. Bessel, and Merers: and then the crew: hationg the horly by a rope attacherl to the sledge, one of the men on the right hokding another lantern. Nearly all are dreseed in -kins, and, were there other eyes to see us, we hould look tike anything but a funeral cortege. Thee Ekimon followed the erew. There is a weird sort of light in the air. partly boreak or eleetrie, through which the -tars thone brightly at 11 A.si, whe on our way to the grave.
"Thus end poor Hall'- ambitious projects: thans is -tilled the efferesecing enthusiam of as arkent a nature at I ever knew: Wise he might not always have been. hat his sonl Was in this work, and lat he lived till spring. I think he woukd hate gone as far ar mortal man could go to aceompli-h his misrion. But with his death I fear that all hopers of further progrese will hate to be abontoned."

The death of (aptatin HIall proved to bee fatal to the matn object of the expedition - the attainment of the Pole: if poseible - or the abeolute proof of its inacer-ability The eommand of the expedition now derolvel upon ('aptain Buddington.
siverat unsureereful boat jormeres to the nerth were fol-




 $22^{2} \mathrm{~A}$ 人。
 -remenl to her in motion, drifting to the oruth. With the hope





here course frequently, lat always gaining grouncl. By the 1sth, she stood $79^{\circ}+4^{\prime} 30^{\prime \prime}$ N.
()n the 2 thth, exery preparation was made for a pos-ible abandonment of the vessel. A house was built on the floe, as a retreat in case the ship shoukd he destroyed. For nearly two monthes the Poleris drifted southward at the merey of the iee-pack, and was nipped near Little Iskan by October 13.
". At 5 A.m. of the 15th (Octoler)," writes Admiral Davis in his " Narrative of the North Polar Expedition," "a rery heary snow began to fall, and continued until 8 A.m., when the wind blew so hard that it was impossible to distinguish between the falling and drifting snow: The gate inereased all day, driving the vessel with its surrounding iee with great rapidity: It commenced to blow from the $s$. E., but shifted to thes., and finatly to the S. W. During its prevalence, the ail was so completely filled with the flying snow that one could not see more than 20 or 30 feet. The ship had remained fant to the floe so longe and drifted with it so far, that no particular anxiety was felt as to the result.
"The eaptain ham, however, always said that if the vesel pasord through simith strait, he would not feed easy until the iee in which she lay, had joinod the regukar Baffin's Bay pack.
" The "north-watery", as it is catled hy whalemen, is always fomed in the northern part of Baffin Bay, and he knew that, Were the safely erosed. the ship would float quietly down with the patk all winter, and be released in the spring far to the zoreth.

- The direction in which the reserb was moving was at matter of speceutation: the fact of her moving was admitter. The

 it wat repgerterl that the etarboard side of the versed was free
from iere The (eap tain burned out the (rew, ant secered the -hipe low andelitional hatwer to the floe. This extrat hativer Wets orer the -tom and ked from a karge iee-anchor, sunk in the floe to the mam-mast. Two hawser hat served huring the whole of the chrift to heht the Poletris to the thee one over the bow - amt ome over the stern. Final preparations were makle to athaton the vesel, nearly exerything had been got ready on leak: the seamen stifl hat their chothese and peremal efferets to look after.
 (ater faro- lookent wror the rail amb pereal into the darkness and the eqoom, womberines what wombl happern next. Thee -ky was threatening. The monon struget in vain to break
 proximity: some jutgencont conk laz fommed hy means of thene at to the raphlity with wheh the reacl wit- moving.

 ()ne of 1 Wo pepsons thought the kend wite vieible, but it was vory merertam.

 time ther park clowial 10), jamminge her heatily: it wat then
 1he edfeet of that presume She -hook and trembled. She









of the sitnation. Fexeling it was extremely doubtful whether the dip woukl stand, (aptain Puddington ordered provisions and stores to be thrown upon the iee. Then followed a busy serence. Each one was deeply inpressed with the exigency of the moment, and exerted himself to the utmost. Boxes, barrels, (ans, etce, were thrown over the side with extransfinary rapidity. Ten performed gigantic feats of strength, fowing with apparent easer, in the excitement of the moment, boxes which at other times they woukl mot have eseayed to lift. Forwarl, foal and more substantial provisions and h:tgs of elothing were thrown oferboard; ahaft, the lighter boses of eanned meats and tobeaceo. with all the murk-ox skins and fresh seal-meat, were tran-ported to and fro. The cathin was entirely emptied, berls and heddinge, rlothes and foren ornaments. were carried ont. Messrs. Bryan and Meyer phared upon the floe the hoxerentaining all their notr-books. obeervations, ete. This was done deliborately and after mutual emsultation. The boxes were tou large to be carriced about. and, in the actual condition of thing-s the flow appeared to be deridently the beot plare
"The Ekimo women and children took refuge on the iee. and two hoats wore lowered and with a seow placed on the flow.
"The presure had now heremere oreat that the great floe
 mally breaking its culge and hearing chown the piesers. Many articles hatl been therom in a lesap) neat the ship, ant it was fonmel that sohe of the lowe thance in the pile were dropping

 artiofse, would sink with her. I rall wat therefore merle for




After laboring about one hour and a hatf, the deeks were flearel and the men on board ship hat finished their work. At $9: 30$ P.ar, hy anne change in the ice the starboard side Wat again dear ; the prosel wat free from pres-ure, and the crack- in the floe bexan to open.
" ['nfortmately, two of these crack- ran through the places Where the stern anchors hat heen phanted, breaking their hodd. The wind, still strong, now drove the vased from the floe and, the anchore drageging under the strain, -he swang romel to the forward hawser. The latter slipped, and the veerel was earried rapidly away from the ief. The night was hatk ant -torms. and in a few momente the floe and its prefions fredght couk no honger he seen through the drifting snow. Before the erparation. it had been motieed that the floe was muth horosen on it- edge: that the prowiono and -tore were - (opatatod from carch othor herapilly widening eracks: that the enen aho were on different pheres of ioes: that active efiont- Wrope being mate to latunch boats in ondere to bring the *attorend frople togrther. Several ment wrere bern ru-hing roward the -hip) as the was leating. hat they faikel to reateh



- Nimetron perans- were thus separated form the - hip, in-

fobatern men remained on board- "Thai- remmant of at









pumps, and a few path of hot water started the four pumps. The captain called out, 'Work for your lives, boys,' and the crew set to work with a will. In spite of their utmost efforts, the leak still gained upon them. The engineers and firemen wore urged to their utmost. Everything of a combustible character, incluting seal blubber, was thrown upon the fire, and at the end of an hour and ten minutes of the severest lahor, the steam pumps were at hast in working order. Nor was this a moment too soon, for at the moment the pumps began to work, the water was lapping over the floor of the fire-room."
("aptain Buddlington awaited a favourable opportunity to beath the Polderis, and this was aceomplished a few days later near Life-Boat Core, where a comfortable house was built of the ressel for the winter.
some Ekimos rendered them considerable assistance, and recoived suitable gifts in return.
"We have taken stock of our ammunition," writes Captain Buddington in his journal, "and find that we can avail ourselves of about cight pounds of powder, which some of the nen had stored away in their cheste and powder-flatks. This is all we have on board, the powder-can having been ako put off on the iee during the fearful night of the 15th ; ako atl our sharp": (artridges, exeept some open (loose) ones which were found amongst the men's things. ()ne box of musketcartridees we have, and plenty of shot and lead ; ako several shoot gums. In fact, we are not altogether as bad off as we first suppesed, and the only thing that we are short of is chothing. This, if we camot get any game, we mate feel considerably hefore spring connes on."

The E.kimos from Etah made frequent visits, but coukd wise them no information of the lost members of the party. The generet opinion with (aptain Buddington and his men wats that Troon had heen able to effect a landine with his men, somewhere to the south, and that he would probahly we his
dogs, slefls, and boats to travel up the coast and rejoin the main party.

In the spring of 187.3 two boats were carefully constructed from the material of the Polaris, and the party made preparations to reach Cpernavik. (On June '3, the boats, having been freighted and maned, got under way, and after an exciting journey of two hundred miles were picked up near (ape lork by the scoteh whaler Racenseraig.
()ne of the boats weal on this retreat was brought back to civilization and presented to the smithsonian Institution at Washington. It was exhibited at the International Exhibition, Plilatelelia, May 10, 1876, by the side of Kane's boat F'ath, and formed part of the Aretie Collection furnished for the ( $e n$ entennial by the U'nited States Naval Observatory.

To return to the nineteen souls whift on the ieceflese ; of the moment of parting from the Polerix, ( $a$ ontain Tyson writes:-
"The iee exploded and hroke in many places, amb the ship broke away in the darkness, and we kost sight of her in a moment.

$$
\begin{aligned}
& \text { "(ionc! } \\
& \text { But an ice-bound horror } \\
& \text { Seemed to ching to air. }
\end{aligned}
$$

"It was smowing at the time akso ; it was a terrible night. On the läth of ()etoher it may he said that the Aretie night commences; hat in aldeliton to this the wind was blowing strong from the south-east ; it was showing amed drilting, and w:a fearfully dark: and the wind was exeedingly heary.
 to the wind latel. We diel not know who was on the ier or who wes on the shij) ; hat I knew some of the ehikfren wore
 from the (emshing herl of the chip) were some musk-ox skins: they were lying acrosis a wide ceatlin the iee and ats I pulled
them toward me to save them, I saw that there were two or three of Hans' (hiklren rolled up in one of the skins: a slight motion of the ice, and in a moment more they would either have been in the water and drowned in the darkness, or crushed between the iee.
"It was nearly ten o'clock when the ship broke away, and we had been at work since six ; the time seremed long, for we were working all the time. Hannah was working, but I did not see Joe or Hans. We worked till we eould scarcely stand. They were throwing things constantly over to us till the ressel parterl.
"home of the men were on small pieces of ice. I took the "little donker" - a small scow - and went for them; but the seon was almost instantly swamped; then I shoved off ome of the whate-hogats, and took off what men I coukd see, and some of the men took the other boat and helped their companions, so that we were all on firm iee at last.
"Whe dial not dare to move about much after that, for we could not sere the size of the iee we were on. on acerount of the storm aukl larknes. All the rest hut mxelf, the men, women and chilkern, sought what shelter ther coukd from the stom by゙ wrapping themselyes in the mun-ox skins, and so kat down to rest. I alone watherl the flow all night."

The fothowing morning an insentory was taken of the stores on the floes, and they were formel to be : fourteen cans of permmican, reven and at hatif hage of herat, one can of dried atphles, and fourtern hams. "If the eliiz) did not come for us."
 (1) die of - tarvation. Fortunatrly, we hatrl the boats."
(:af)tain Tyson made an effort to reatch Little Iskand, in ortere thenerore the assistance of the Eskines living in the nefohbomboot in prochring food and shelter for his joarty hamer the winter. This he wat mathe to acomplish. amb - 0 on after the Poluris was seen rommting a point. Signals

Wrere made hy hoisting the colours and showing an India-rubber reth, but neither the signals nor the men were seen by the Polaris.

Another futile attempt was makle to attract the attention of those on the ship), and (aptain Tyson endearouref to kaunch the boats and reach her, but without suceess. Cales now foreed the floe out of sight of the ship, and the forlorn men set to work to make the best of a desperate situation.

By tate November, the effects of exposure and want of food began to show themselres; some of the men trembleat when they tried to walk; the elnhken often cried with hanger, atthough all was given to them that coukd possibly be spared. The seals brought in were recerived with gratitude; the inVahable suecess of Joe and hans was fully apprectated; without them, the chances of here wouk hate been very much diminishert. so keen had the appertes of the party berome that the seat-meat was eaten uncooked with the skin and hair on.

December 2.5, ('aptain Tyron reeords:-
"Our ("hristmas dinner was gorgeons. We had cach a smath pieere of frozen ham, two whole hisentits of hard hreath, a few mouthfuls of dried apples, and also a few swatlows of sealls bloorl! The kist of the ham, the last of the apples, and the kast of our present supply of reak holood! So encls our ('hristmas feast!"
"Now Year's dimer. I have dined torday on about two
 wo hat pernty even of that, hat wo have not."



- I W:aく thanking the othere ereming how strange it wouk



of any one on this floe, except when Herron came out of his hut and saw the sun shining for the first time."

The monthis of Fehruary and Mareh passed dismally enough, with rarting fortune with the hunters. Toward the end of Mareh, the condition of the party was growing rapidly worse. On Mareh :3, boe shot a monster oogjook - a large kind of seal.

It was, indeed, a great deliverance to those who had been reduced to one meal of a few ounces a day.
"Ifannah hat but two small pieces of blubber left," continues (aptain Tyson, "enough for the kmp for two days; the mon had but little, and Hans had only enough for one day - and now, just on the verge of absolute destitution, comes along this monstrous oogjook, the only one of the seal species seen to-daty ; and the fellow, I have no doubt, weighs six or seven hundred pounds, and will furnish, I shoukd think, thirty gallons of oil. Truly we are rich indeed !"
"April 1st. We have been the 'fools of fortune' now for five monthes and a half."

On this day it was found necessary to abandon the floe, which had now become wasted to such an extent that it was no longer safe; at 8 A.m., therefore, the party took to their boat. This boat, intended to carry six or eight men, was (rowded with twelve men, two women, and five children, with the tent and skins and some provisions. There was so little roon that it was diffecult to handle the oars and yoke-ropes. After making fiftern or twenty milos to the south amd west in the patck, a lateling was effected, the tent pitehed with the intention of remaming all night. For the next twentre-cight days the part y" adranced to the south hy hoat. camping upon the iew at might, undergoing the most peribons hardships from the upheravals of the iece through gates and stomes.

It $1: 30$ p.an. of April 28 . a steamer howe in sight, right ahead, and at one time appeared to be bearing down upen the
boat. The American colours were hoisted, and the boat pulled for her. She was recognized as a scater returning southwest, and apparenty working through the ice. For a few moments the hearts of the shipwrecked party were thrilled with joy, but the steamer failed to see them, and night coming on, whe soon clisappeareal. That night the boat was again hauled upon the ice and fires lighted to attract the attention of passing vesicels.

At darlight, a steamer was seen eight miles off. The boat was latunched and hearled for the ship, - but after two hours' pulling, she was so heset by iee that she coutd make no headway. The party tanded on a smath pieee of iere, hoistert their colours, mounterl the highest point of the floe colleeted all the riftes ame pistols, and fired them together to attract attention. After there pounds, the steamer fired three shots, and, fhanging her conere headed toward the floe. The party gave a shout of delight, but soon after the steamer again changed her course and stemed atray.
"Again in the morning of the 30 th, when the fog opened,
 colors were set on the hoat's mast, and koud shouts were uttered. IIans showed off in his kayak, of his own aceord, to intereeght here if posible: the morning was fogery but the steather's heat soon lurned fowatels them and in at fers montemb- the wate alonesile of the flow."

The there ehore given by the shipweredel people were retmond ley a hombed mon on deek amd aloft. The tresed

 bomat wore wer sone in the water: but the shipherecked paty dial mot wait for theme. Thery harew exerything ont of



time during which they had been on the iee was mentioned, they were regarded with astomishment, and warmly congratulated upon their miracutous escapes. They were picked up in latitude $533^{\circ} 335^{\prime}$ N. . off (irady Harbor, Labrador.

Thas ended one of the most remarkable eseapes on record. For five mont he the little band of shipwrecked men and women had drifted at the merey of the Aretic ice-pack, a distance of 1300 mites.

## CHAPTER XIV

Captain Thomas Long．－Discorery of Trangell Land．－Captain （arlech and Captain Palliser sail across the sea of Kara． Captain Johannsen circumnarigates Nora Zombla．－First（ier－ man expedition．－Second Gernan expedition．－（itrmanio．（ap）－ tain Koldewer commanding．－IItmast，Captain I Iegemann．－De－ parture from Bremen．－Crossing the Arctic（ircle．－Island of Jan Mayen．－The ice line．－separation from the Honso－ Adrift on the ice－floe．－Winter．－Final reseue．－Germmuia beert．－Winter．－Sledging parties．－Lieutenant Payer＇s re－ markable journey．－ $77^{\circ} 1^{\prime}$ north latitude．－Return of the Gior－ mernia．
（）Ther important discoveries followed the journers of Dr．Hayes and（＇aptain Hall，including that of Captain Thomas Long，an American whaler．who in 1 ata discovered ＂at misuntamous comontry of considerable extent in the Polar Oeean，leyond Behring strat．＂suppored at that time to the the western prolongation of Plover Irland．

The stme sear（＇aptain（＇arleen and（＇aptain Palliser sailed ateros the exenerally inareeserble sea of Kiara to the mouthe of the ohi，－and（ap）tain Johamesern sucoerdend in circemmariquting the whele arehipelage of Noxa Zemblat lat Wiと the first（iemman north polar expmedition was fitteal wat through the exortions of the erientiot Dr．A．Potemman


 Lathl，metnminge hente the fith of the same sear．

 2 から
considerable part of the previously mnvisted coast of Last (ireconland. The ship (iermania was chosen for this purpose, boing expresely adapted for ice navigution; the Ifanse of nearty the same size was to aecompany her. ('aptain Karl Kohdowey and (aptain Fr. Hegemann were first and second in command respectively.
"The departure of the expedition from Bremerhaven," Writas ('aptain Koldewer, "took place on the 15 th of June, 156), in the presence of his Majesty, the King of Prusia, whose warm interest in this great national undertaking showed iterlf in this solemn hour in a manner never to be forgotten. Amongst the numerous gentiemen in attendanere on his: Majaty were his Royal Highmes, the Cirand Duke of Alecklenburg Ahwerin, C'ount Bismarek, the Minister of War and Marine, ron Poon. (ienoral ron MIoltke, and Viee-delmiral Jarkman. The ships lay at the entrance of the new harhour just outside the shiee. Thieking, havingheen introduceri to theserentifie gentlemen and the rommander of the experlition, and having greeted thenn with a hearty shake of the hand, the Presilent of the Bremen Committee, Merr A. Cr. Moske, requested his Majosty's permision to peak a ferw parting words: and in an earnest and inperesive manner the speaker refereed to the ereathess and importance of the object, the selfellenial, diffienltise and dangers which lay before them, but which they all willingly hrated for the honour of their native land, for the honour of the Corman nary, and of (iemman reienere."

July 1 foumd the experdition in $61^{\circ}$ north latitude, pat-ines the entranee between Nowwity and the shetland 1.N... "With that the (ierman ()rean was left beliend amd the
 - Itlentic swell.
(On the ith of July, at fifty minutes past elexene the Cere (mumin bated the Aretio ('ircle, nearly under the mertedian of (irmonwich.
" I viohent wind was Bowing." writes Captain Koldewor.
 Which wat to be sure guatere for a whote gear. The Itense Wat some miles in adraner of wos, and wat the first to unfurl the Sorth (iemman flag: at the rame time firing one wim. We followerl. (ionformably to the conotom, ats on (rowing the

 hat mot yet mo-sed the Aretice (ircle havine to maderge the rather rough thaving ant rhristoning emstomary on sum
 with at goon glats of wine, to warh away the evil afferts of the (o) ${ }^{(1)}$ Water."

 thor-:-
"We anteren into the phirit of the fom willinely, knowine


 abonut the whole day with aty langhing face and towarls













what good cigars are, and has great respeet for those to whom they belong. 'Then eame the christening', wheth in this ease Was not appliod to the head (as is usual) but to the throat and stomach. Neptume put some questions to me through his speaking-trumpet, desiring me to answer. I saw his object, answered with a short 'Ies' and then elosed my lips. The mischicsous waterfall rattled over me, causing universal merriment. They then took the bandage from my eyes, that I might see my handsome face in the glass ; but instead of a looking ghas, it was the combing of the wooden hatchway, which with great gravity was held before my face by the harber's assistant. I was now absolved, and could laugh with the others, whilst seemg my commades ohliged to go through the same eourse one after the othere."

By the 9th of July, the expertition eame in sight of the istand of Jan Mayen. The midnight hours had now become bereeptibly lighter ; even in the cabin a kamp was no longer neerled, and at twelve o'chock at might it was possible to read and write without difficulty. Fog and snow hat already begun their ruke of terror, and Captain Kohdewey reeords three hundred and sisty-eight hours of fog from the 10 th of July to the 1st of August.

The istand of Jan Nayen lies in the midefle of the wide, deep sea between Norway and (ireenkand, Iceland and Spitzberene : and is distant about sixty geographical miles from the roast of (ireenkank. It was diseovered and named after a Dutehman who visited it in the year 1611. It is nime miles in leneth and one mile in hreadth, rocky and montatanous, with only two spots of flat beach suitahke for kanding-phaces. The northeast part rises to a height of sis thoutand eight handred sidet-there feet, in the lofty beerenterer. which has a large mater. In the vear 17 mane $^{2}$, Burgomatster Andereon, of Hamburg, reported a deceded opuption from a matl side (rater, and in 1S1s, sorest)y and another eaptain saw great
pillars of smoke rising from the same patee. Of this wonderful isohated, snow-corered peak, Lord Dufferin, in " Letter" from High Latitudes," wrote. -
" $\$ My delight was of an anchorite catching a glimpse of the severnth heavern."

Jan Xayen lies so near the edge of the iee-fiekls, that from 1612 to 1640 it afforded the Enghish and Dutch whalefishers a comfortable station for their train-oil preparation. (one ship is reported to have brought home one hundred and ninetr-six thon*and gallons of oil in a single sear.

The ice line was reached July 15. "After a foggy lay, a light southerly hereze got up). the sails filled, the ship answered the hedmence more, and we moved in a north-westerly course between -matl floes and brashes. A practiond ear might now notiee a peculiar distant roar, which seened to come nearer by degrees. It wat the sea singing against the still hidden ice.
" Nearer and nearer contes the rushing noise. Evore man is on cherk; when, as with the touch of at magie wand, the mist divides, and a few homered yadshefore us lies the iee in bong lines like at deep intented roeky erobst. with wathe glittering Whe in the sum, ant the forming of the ware mometing high, with the top covered with hlenting white-sonw: The eros of all reated with athazement on this gramel panomamat it wate a ghomols hat serions moment. stimed as we were by new
 reathing expmexatims.

 1 पth of Jaly the oftere of the two -hique exchanqeal hornital-
 signals, the Mamen -rparated from the (iermemios. and they





turke and $166^{\circ}$ ．it＇west katitude．The dark rock eonst of East Greenland was visible for the first time from Cape Broer Ruys to（＇ape James．

By saling，towing，and warping，the Itanse made slow progrese through the ice．The eaptain and two offieers and おじ sailors make an attempt to kad on August $2 t$ ，but were ohliged to return to the ship without having accomplished their zinsion．On the 25th of August the Hense reached within thirty－five nautical miles of sabine Islancl．The ship Wa＊continually suhjected to dangerous iee pressure and often foreed southward by the drifting ice－fiekts．By the Gth of Feptember，she lay between two promontories of a large ice－ fied．which eventually proved a raft of deheranee．By the 1 the of september，she was completety frozen up in $73^{\circ} 2.5 .7^{\prime}$ north latitude and $18^{\circ} 39.5^{\prime}$ west latitude．At the merey of the drifting eurrents，the Honsa stood in imminent peril of total destruction．Between（）ctober sand 14 the drift had earried the ship serentrotwo natical mikes to the south－ southwest．The nights were eodd．sometimes $4^{\circ} \mathrm{F}$ ．below zero．The only sign of anmal life to be seen were ravens， which were dombtlese wintering on the coast：once a gull and a falcon mate the ship a risit．I serere storm from the north－northwest on the 19th brought disastrous pressure upon the Matuser．
＂shortly before one orelock，the deek seams sprang，but still the exemerl tight．Dighty hook of ite pushed them－ selvers under the bow，and，althoush ther were orushed by it， they foreed the ship up）no kese than serenteren feet．The rising of the ship was an extraorknary and awful，yot－plendid －preetele wi which the whole erem were witnesee from the ice．＂

R（abliving the gravity of the situation，（＇aptain Itowemann


were put in artion to free her from water, but to the horror of all, it was diserofered before many hours that the Mancia Wa: dommed.
"('ahnly, though much moverl, we faced this hard fact."
There was not at minute's time to lose' ; while ons-half of the men etayerl by the pumps, the others were busily engaged bringing the most neversary artiches from the veserel to the flos. (irathatly the ship) filtesl with water, and by eight in the moming the men who were besy in the fore-peak gettherg out firewoorl came with anxious faces to say that the wood wat atreaty floating below. It there o echock the water in the rabin had reached the table, and all movable articters were floating.
"Found about the ship lay a chatetie matis of heverogeneous artirles, and gronas of foeble rats struggling with death, and trembling with cold."
()n the morning of the $21-2$, a last trije wat made to the Ifonses for foel and her masts-sarerifieed to the stress of neod. she wath then cut atwey from the iere that she might not endangere the fises of those on the floe when she sank.

The shipwerekert erexs, in the miserathe shother of the coal
 frightful porition. In the fiar (histance Hathoray Bay ant (iketox Island wore distinetly visible, hut nowhere a way
 driftelto the south. By November:3 the Liverpool enat hat hean phesel, and the pieturesture formation of the eonet

'Phar halth of the party remained gerow: a momotonous



 arti-bically mambiactured of pine woot ambl birch hroom

Wat ayly decorated with paper rings and eandles, - nor were gifts wantinge and finally, wrote Dr. Laube in his day-hook:-
"In furet devetion the festival pasierl he ; the thoughts which passed through our minds (they were much akike with all) I will mot put down. If this shoukd be the kast ('hristmats We were forere, it was at least bright enough. If, however, we were destined for a happy retorn home, the next will be a brighter one; may (iod grant it!"

The months of January and Fehruary were fraught with many anxtous hours, owing to the numerous and severestorms whech thereatened destruction to the floe. The horrers of such an experteneo are vivilly deseribed as follows:-

On the 11th of January, "At six in the merning, I Iilesbranclt, who happened to have the wateh, burst in with the alarm, 'All hands turn out.' An incleseribable tumult wats hearel whothot. With furs and knapsacks all rushed out. But the outer (mitranee was sowed in) ; so to gain the outsinle quickly, we broke through the show-roof of the front hall. The tumult of the efements which met us there wat herond anything we had ahready experionced. searecty able to keare the spot. We storel hurdred together for proteretion from the bed weather. sumbenly we heard, "IVater on the floe elose hy, 'The floe survounding us split m) : a heaty seat aroer. ()ur fiedil hegan to break on all sikes. ()n the epot betwern oun howes and the pilol-mp store of wood which was about twentr-five patere di-tant, there sukfenly opemerl a huge gap. Washerl by the powernful waves it sermed as if the piece just broken off was about to fall upom us: and at the same time wo felt the rising and falling of our now greatly reduecel
 firentord was drifting inte the raging seat. And in like mannow we hatl nearly lost and hoat Bismatiol: exom the whate-


obliged to give up entirely. All this in a temperature of - $9^{2}$, ant a heary somm, wat an arduous prece of work. The eommonity were livided into two part-. We bade eateh other gool-hy with a farewoll shake of the hande, for the nest moment we might so down. Deep derpondeney had taken lowd of our seicntifie friend-: the erew were still and quiet. Thus we stood or efowered by our boats the whale dar. the fine mereking -now penetrating through the chothes (t) the skin. It was a mirarle that ju-t that part of the floe on which we otroul -houkl from its -omumbers keep together.
 manden- of the formerly extemsive field to whels we hat entratol our prearvation. Thwarto ereming the maros- of

 liovel. we fartook of -mmothine in the houre aml lay down, after -etthe a good watch. It wa- pert mikhight. When wo
 the salon on wateh, exclaming. Tum out, we are driting















katen to bring further. On this aceount, furs, sacks of bread, and chothing were taken out and packed on two sledges, which were, however, soon (ompletely showed up). Alt our labour Wat rendered heavier by the storm, which marle it almost imporibibe to breathe. About eleven, we experienced a sudden fissure which threatened to tear our house asmeder ; with a thundering noiso an event took place, the consequeneres of which, in the first moments, deranged all calculations. Cocl only knows how it happened that, in our flight into the (pern, none came to hafm. But there in the most fearful weather we ath stood roofles on the ice, waiting for elaytight, which was stitl ten hours off. The boat King William lay on the edge of the floe, and might have floated away at any moment. Fortunately the fiswure did not get larger. 1- it wa- somewhat quieter at mithight, most of the men rerept into the (:aptain's boat, when the thickest sail we had W:as draw oter them ; some took refuge in the houee. But there, the the door had fallen in. they entered hy the -kylight, and in the hurly broke the manes of glats, so that it was soon full of show: This night wat the most dreadful one of our adrenturour royade on the floe."

For five night- the men slept in the boate; the days were employed in masing their erttement from its ruins. A wosken kitaten wat huilt and at dwelling houne, exactly like the one h ostrosed, hat half as large ( 14 feet long by 10 hroarl and 1 high in the midkler).

In -pite of such frightitul experioneres, the men kept cheerful.
 like hanour, havinge exelamed whike repationg the coffere


 it. - () that, hefore our departure, we might hatw something warm.

Febpluary and Mareh found them helples-sy drifting to the -onthwark, atid by Eator (17th of Aprib they lay floating batekwath and forwards in the Bay of Linbarbik. Limetand show-honting-s soon made their appearance, so fearles and confiling that, "some of them," so says Bade" day-hook, "will ahmost perch upon our noses, and in five mimutes allowed themodres to be caught three times.
()n the 7 th of Nuy the agreeable sight of open water in the direction of land dhemed booth offieer's and men. The (ap)tain now deceled that ath attempt would be made to keare the flow and reach the eoast. The little community, diveded amid three boat-, hade farestell to the icerfloe which had leern their home for two humded deys.

Daring - fereral day- of hatl weather, ghall progress was makte. The men suftered eom-iderably from exhaustion, -now-hlindness, and want of proper shelter and food - the lattor problem wat oceatoning considerable foncern, and alreatly the men were "almost howing therir eyo out after a **ah." There wat hut -ix werl-" short mosvi-ions on hathe
 con-t before the settlement could he peachem.

 all hint imple-athle iow hanmoneks.







 mone and -tantol willows. But but trate of hamean in-

Two days later (June 6) they started once more; their object was to make for Friedricksthal, the nearest colony on the southwest coast of Greenland. On June 13, 1870, after passing through the straits of Torsudatik, and skirting the corat, the longed-for bay was reached. ". few hundred steps from the shore on the green ground, stood a rather spacions red house, topped by a small tower. It was the mission house. (iroups of natives from the shore speedily welcomed the wanderers and the eheerful greerting of the Morarian misionaries: 'That is the (ieman flag! They are our peophe! Welcome, welcome to (iseenland!' fell like music in their cars: After partaking of the generous ho-pitatity extended by the missionarises, and taking a much-needed rest, they pushed on in the hopes of reaching the settement of Julimeshaah, disturt some eighty miles, where the Duni-h Constence was expected at any moment, and would be their only moans of reaching Europe that sear."

By the 25th of Juty; the offerers ant crew of the Itonsa weiphed ancher for the homeward rosage. By the 31st of July they were on the ligh sea in Davis strait. "No more ice! Sit suthwards, and -O hearenly music of the word - homewarls!"

It will be remembered that on July 20, 18699, the two ships
 with offieers and erew, unter the imperesion that the IItheser would rejoin her within a short time. When this did not take place, much eoncern was folt for her fate. Bey the 2Tth
 wor longitude. Two dity tater an interesting note is made of the perentiar condition of the atmonherese.
"The weather wat clear and - till. and we heel a geond omerthnite of ohserving the refraction of lieht and the miraes. The what atmoenhere wia cunivering with a kind of wave motion, so that the exact outhine of the where wat ofton - 1
distorted as to be merecognizable. It may be imagined that pictures of thing- far heyond our rance of -ight conk that be
 he onse satw athe recognized his- fathor--hip perferely in the mirage when it was thinty mike distant. The effecte of this phermomernon on the distant ice wat wonderful: sometimos it appeared like a mighty wall, and sonnetime like a town rich in twwer- and catllo.
 stood within thirt mile of sathon I land he dugust t. sailing -ratight for (iriper Pamb- she at lat anthored in at mall hay which wat afterwarl hor whiter hartonor.



 Wat carofully - ararched fors. but no indieations of it- remain-
 howerer, givinge exidence of long habitation.
















Ler 1:3, ('aptain Koldewey and Lieutenant Payer undertook a sledge journey to Flegety Fiord. They returned to the ship sieptember 21 , after an absence of seven days, having travelled $1333 \frac{1}{2}$ miles. The long winter pasised in the usual monotonous fashion, and in preparation for the epring stedge journeys. A thrilting incident, however, occurred carly in Aarch, which is admost unprecedented in Arctic adventure.
" We were sitting," writes Lieutenant Payer, "fortunately silent in the cabin, when Fobdewey suddenly heard a faint ery for help. We all hurricedy tumbed up the emmpanion-ladder to the deck, when an exctamation from Bongen, ' $A$ bear is farrying me off!’ struck painfully on our ears. It was dark; we could seareely see anything, but we made directly for the fuarter whenee the cry proceeded, armed with potes, weapons, etce, over hummocks and drifts, when an alam-shot, which we fired in the air, seemed to make some lit the impreserion, as the beat dropped his prey, and ran forwand a few paces. He turned again. however, dragging his victim owe the broken shore-ice, close to a field which streteheel in a southerty direction. All depended upon our croning up with him before he should reach this fied, as he wouk coure his pres over the open phain with the speed of a hooses, and thus weseape. We suceeded. The bear turned upon us: for a monent, and then, samed he our continums fire, lot fath his pres. Wie lifted our poor comrade up on to the ise, to bear him to his cahin, a task which was erendered sonmewh difficult he the slipepery and uneren surface of the ice. But after we had gente a litthe
 On procuring a light, the coblest nature woul have been shorkerl at the spectacte which poen Pargen preareted. The
 inforiow in other parta of his hosly. His ehothes and hair were
 rear of our calin, al his own was mot large cmoneh. The fir-t
operation was porformed upon him on the eabin table．And here we may briefly notice the singular fact that，although he had been carriod more than 100 paces with his skull ahmost laid hare，at at temperature of $-1: 3^{\circ}$ Fahrenheit，his sealp healed so perfectly that not a single portion was miswing．＂

Borgen deseribes the sudeden attack of the bear as follows： ＂Nout a quarter before nine r．m．I had gone out to observe the oecultation of astar，which was to take place about that time，and aleo to take the meteorologieat readings．As I was in the act of entting on shore，（＇aptain Koldewey canne on to the iee．Wreqpoke for a few moments，when I went on shore，whike he returned to the cathin．（）n my return from the observatory，about fifty steps from the vessel，I heard a rustling inoise to the left，and berame aware of the proximity of a bear．There was no time to thank，or use my gem．The grip wats so sudden and rapid．that I am umable to say how it Wats done ；whether the bear rese and struck me down with his fore－patrs，or whether he ran me down．But from the chatacter of the injuries I have reecived（eontusions and a （leep）eut on the left ear），I conchude that the former must hate been the eatse．The next thing I lell was the tearing of my sealp，which was omly porotereted by a skull（ad）．This is their moxle of attarking seals，hot，owing to the slipperinese of Therir skulls．the teeth glide off＂．Thae ory for lew which I uttored frightened the animat for at moment ；hat he furned agatim and hit me sereral times on the head．＇The alarm had meamwhile been heated by the（aptain，who hat not yet





 droppat buc．ath！frathe at fow stope atide；but he immo－

Whately seized me hy the arm, and, his hold poroving insufficient, horeved me by the right hand, on which was a fur glowe, and this gave the pursuers time to come up with the brute, which had hy its great opeed left them far behind. He was now making for the shore, and would eertamly have escaped with his prey, had he sueceeded in climbing the bank. However, as he came to the exge of the ice, he turned along the coast side, eontinuing on the rough and broken ice, which ereatly retarded his speed, and thas allowed his pursuers upon the iee to gain rapidly upon him. After being dragged in this way for about 300 paces, ahmost stramgled by my shawl, which the bear hat seized at the same time, he dropped me, and immodiately afterwards Kokdewey was bending over me, with the words "Thank Cod! he is still alive." The bear stood a faw patees on one side eridently undecided what course to pursue, until a builet gave him a hint that it was high time to take himself off."

Preparations having been completed for an extended sedge journey for examine the bays and inkets of the matimand, the parterstarted March 8,1870 , and were absent until Aporil 27 alter twontr-threedaysof most arduous kahours. Lieutemant Payer hat the satiafaction of reathing $\sigma^{\circ} \mathrm{I}^{\prime}$ north hatiturle, at that fime the most nort herty point ever reacherd on the east foat of (ireenkath. From an cherated wight the seat appeatred eorered with an unbroken field of hummocks, and kand was seme to stretch out in a northerly dirertion as far as the eye could reach.
()ther joumere which followed at close intervals greatly addeal to the geographical knowterge of the coast. On the
 (mtranee to a mamifient ford to the wouth of tape Franklin (if $10^{\prime}$ noerth hatituke), into which they penetrated to a dis-
 inte the interior, a derded elamge in the temperathere wat
notiecel. the atmo-phere and water becane warmer, and herels
 wher insert- thathored wer the greern carth. Nothing could dxeed the ertantern of the -cenery.
 tains. which row higher and higher as they atsonced towards the wort. Licutcmant Payor and Donetor (opeland having climber a peak Jono fer high saw the ford still branching out in the di-tances, anis! fowarts the wort a remote chain of

 The intrion of (ifernland than proviol itaelf to he not at mere


 for heme: at the shipe cheared the lan of the (ireenlated ice, ('aptain Kokdewn quoterl the work of ohd sconesty under


 of - *- Whit? Hhat ho had mot mposed for many a day.













mistaken and out of our reckoning.? But, no! That is certainly Wangerooge ; the depth of water agreer, our eompase is correct. No doubt about it, we are in the Weser ; romething unusual must have happened! still no sail in sight! But what is that? Yonder are the roads. There are sereral large ressels under steam ; they at least can give us some information. So we make for them. We satuted the (Berman flag, and soon the cry was heard, 'War, war with Franee; Napoteon a prisoner! France has dectared a Republie; our armies are hefore Paris!' And then, 'ITansa destroyed in the iee, erew sared.' We thought we were dreaning, and stood stiff with astonishment at such errand and heart-stirming news. Not until a loud hurah for King llilliam sounded from a hundred (ierman throats did we regain our speech, and answer with another' Hurrah!'"

## ('HAPTER XV

Austrian experdition, 1871. Payer and Wioppecht. - The Togetthofif aldift in the Polat park. -- Diseorery of Pranz Jome

 hu!f. Romeat of oftieres and merw. - Picked up) by Rumian

H.ATNG: gatned momen distinction for his valuahle servieps
 -sherl to continus in the path of polar dizocorers. 'The following yeat, in compsany with his collagun and friom, Lien-





 in calling into cxisomer as atili hame Austrian cxpelition in







 funt - -nd
 - 心
reach Tromsoe until July 3 . Ten days kater the Tegetthoff turned her prow to the north ; the Norwewian eotet with its nemy glaciore was in full view on Juty 16 , Nonth ( 'ape bomed in the blue distance. By July 25, whike in hat. $7 t^{\circ}\left(0^{\prime} 15^{\prime \prime}\right.$ Ň, the ion was sighted; proceeding with sarefu\} narigation through opens: in the frozen ocean, the ship moved in her conues matil the end of tugust, when she heeane beed near ('ape Xassen, at the northern end of Nova Zembla, having ju-t parted with the Isbjorn near Barentz Iske, where Count Wikezek wat placing supplies for their powible retreat."
"()minou- were the eronts of that lay:" wates Payer, * for immerliately after we had made fat the Teycthofif to that floe, the ice closed in upon wo from aht sides and we became dose prisoners in its grate. No water was to be seen around
 Happy is it for mea that inextinguishathle hope comahles them to endure all the viciseitudes of fate, wheh are to tert their powers of enduranee, and that they ean neverser, at a glanee, the long series of disappointments in store for them! We math have leen filled with derpair, hat we known that evening that wo were heneeforward donnet to obere the caprices of the iere, that the -hip wouk nerer again flot on the waters of the seat, that all the expectations with which our friemb, but a few hours before, saw the $T$ egfelthoff steam atway to the north,

 wo honed for the hone of our deliverance! It first we experen! it henmpy, then datre, them from wook to werk: then at the seatons of the year and ehanger of the weather. then in the ehathee of now lears: But that home mete cotme. yot the




To reath the coast of siberia under these circumstances
had beemene an imposilility, and men in case the ship became liberater, the seateh for at winter harbour in Nota Zembla Woukl be a mataer of peril and difficulty.

Drifting. not with the current, but in the direction of the prevailing wind, the land of Nova Zembla reeeded until it faded ont of right and only a derent of ice surrounded them. The frightful ice aonsuhbons which frequently theatened their destruetion, determined the men to buikd a house on the nain floce where supplies of coal, fuch, and provisions were -tored. Lientenant Payer comments on the terrible condi-tion- under wherh they existed.
 feetly woll how one might low lif reason with the continuance of these sudden and incersant as-atult-. It is not dameres that We foar. hat wore far: we are kept in a con-tant state of

 -tarthed ont of -kerp), amd, like hunted animats. up we -pring to await amid an awfol darknes, the end of an enterprise





 man- wif the iow. we wathe that the foreso of one memy are Fncoraring.









With sad resignation the officers and crew looked forward to passing another winter in the ice, although plenty of bircls, seal, and bears insured then fresh meat, so essential for the preservation of health in high latitudes.
" A memorable day," writes Payer, "was the 31st of August, 1873 , in $799^{\circ} 43^{\prime}$ Lat., and $59^{\circ} 33^{\prime}$ E. Long. That day brought a surprise, such as only the awakening to a new life can produee. About midday, as we were leaning on the bulwarks of the ship and seanning the gliding mists, through which the rays of the sun broke ever and anon, a wall of mist, lifting itself up suddenly, revealed to us, afar off in the northwest, the outlines of bok rocks, which in a few minutes seemed (0) erow into a radiant Appine land! At first we all stood tramsfixed and hardly believing what we saw. Then, carried away hy the reality of our good fortune, we burst forth into shouts of joy - 'Land, land, land at last!' There was now not a sick man on board the Tegetthoff. The news of the diseovery spread in an instant. Erery one rushed on deck, to convince himself with his own eves, that the experdition was not after all a faiture,- there before us lay the prize that could not be smatehed from us. lot not hy our own action, but through the happy eapriee of our floe and as in a dream haul we won it, but when we thought of the floe, drifting witlout intermiswion, we felt with rembuhbed pain, that we Were at the merey of its movements. ds yet we had secured no winter harbour, from which the exploration of the strange kand could be succesfufty undertaken. For the present. too, it was not within the verge of posibility to reach and visit it. If we had left our floe, we shoukl have heen ent off and lost. It was enly under the influence of the first exeitement that we made a rush orer our iee-fichl, atthongh wo knew that numberbose fienmes made it impessible to reach the land. But, difficultiw notwithstanding, when we ran to the edge of our flex, we heheld from at ridge of iee the mountains and graciers
of the mysterious land. Its vallers seemed to our fond imagination chothed with green patur-*, over which herk of reindeer roamed in undi-turbed enjoyment of their liberty, and far from all flows.
"For thousunds of raurs this land had lain buried from the knowledge of men, and now its diseovery had fallen into the lap of a small hand, themeelves almo-t lowt to the world. who far from their home remembered the homage due their woweign, and gave to the nowly discoverod territery the nathe Kaiser Franz Jonef Land. With hond hurraho we drank to the health of our Emperor in grege hatily made on deck in an iron coffec-pot, and then tresorel the Tecyethonf with flages. Ill cares, for the present, at least, di-uppeared, and with then the pasire monotory of our lives. There wa- hot a day, there was hardly an hour, in which this my -teri-on- land did not henceforth occupy our dhoughto and atterntion.

In ()etnher the reseld driften within there mike of an i-kund lying off the main mate of fand. Lientenant layer lamken
 after come Wikezk, whore derp intere-t in the experlition had won for him the affertion of all.

 that -ixty-sevelu hear-were killed. (hat the loth of Nared,









five gallons of rum, one pound of extract of meat, two pouncls, of fondenserl mifk, and eight gallons of alcohol. The party consisted of Payer and six men, with three dogis.

Intrense eold and violent snow-storms, the thermometer falling as low as - $-59^{\circ}$, caused great suffering to the men from frost hites. This frightful temperature was experienceel Mareh 14. On that day Payer with a Tyrolese mountain climber stood on the summit of the precipitous face of the Sonktar(ilarier, whose broad terminal front orerhangs the frozen hay of Nortenskjöld Fiord.

After making deposits of provisions, the party were obliged to return to the ship), after an absence of five days.
(On March 20. Lientenant Payer with ten men and three dogs started on a more extended journey of thirty days. The equipment for this second trip consisted of :-

> Ibs.
the large sledge . . . . . . . . . . . . 100
the provisions, inclurling packing . . . . . . 620
the elog slerlge. . . . . . . . . . . . . 37
the tent, sleeping bags, tent-poles, and Alpine stock 320
alcohool and rum . . . . . . . . . . . . 128
fire cosits and fur slores . . . . . . . . . 140
instruments, rifles, ammunition . . . . . . . 170
shovel, 2 eooking-machines, hrag-ropers, dog-tent, etc.
$1.5(5$.
Wach of the four sackis of provisions- - calculated for sewen days and weren mon -- contamed fiftrone pouncls of boiler heef, fortrometh pounds of bread, whe pounds of pemmiran. seren pormuls of hacon, fwo pounds of extract of meat, four
 of efoomlate seren pomels of rise there pormels of grits,

 of head. Boiled heef was taken as food for the clogs, aml it

Was hoped that game would supplement the exeneral rations. From almose the first hour violent blizaurl- internse cold, and the une ere condition of the ice mate the jermenes (lisheartening and kaborious. By hpril 1 they penetrated hy
 heaty ices, to which Payer gate the name of An-trial fomel. By the $\mathbf{~ t h}$ of April they artranced into Rawlinson found over a track betwern hummoeks some of which were forty feet high, the depresions betwern them filled with deep) layers of - now.

The nohle molmtain forms and mighte glaciors of Crown
 their courso in a westenty diection they reached Hohenohere Hand the next day; where the experlition enceanped. and the party divideal, the smaller eontimaing to the north for the purpors of examining the glariors of Rodshlf Latme

I disaster occurred the first day after their doparture which nearly proved fatal to the sureces of their undertakines.
 benceath as ledere. Whieh preeripitated one of the mem. ZanimoTich her mance the doge and -dedgef into at crevaros. - From an manown dapth," writes Patar. " I heart at man" where mineled with the hewling of doges. . All this wate the impresion

 me. I cond not douht that I -hombl he frexipitatal into it then next internt. I wonlewful Provileneer armened tha fall of







dangers of ghacrers, lay there mable to stir. When I cried down to Zanmovich that I woukl cut the rope, he implored me not to che it, for if I did, the skedge woukd turn over, and he woukd bokilled. For a time I lay quiet, considering what was to be done. By and by it flashed into my memory, how I and my guide had onee fallen down a wall of iee in the Inther Mountains, eight hundred foert high, and had eseaped. This inspired me with contidenee to venture on a reseue, dexperate ats it seremed emeler the eireumstanese. Orel had now eome up), amb, atthough he had nevor been on a glacier before, this gatlant offieer dauntlesty advanced to the edge of the crovisise and laying himself on his stomath, looked down into the abyse, and cried to me, "Zaninovieh is lying on a ledge of show in the crevasise, with preeipiees all round him and the dege are still attached to the traces of the sledge, which has sturk feast.' I called to him to throw me his knife, which he did with such desterity, that I was able to lay hold of it without difficulty, and as the only means of resene, I severed the trate which was fastened round my waist. The stedge mitde a short turn, and then stuck fast again. I immediately sprang to my foet, drew off my eanvas boots, and sprang over the crevitse which wats about ten feet broad. I now eaught sight of Zaminovich and the dogs, and shouted to him, that I woukl mun back to Hohentohe Iskand to foteh men and ropes for his reselse and that reseded he woukd be if he could contrixe for four hours to kerp himsolf from being frozen. I heard his answor' • Fate, Signore fate pure!' and then Oreł and I disappeated. Iterethes of the crevasises which hay in our path. of of the hears which might attack us. we ran down the
 thought porsosed us - the reselue of Zaninowich, the jewol atne pride of our parte, and the reeovery of our invaluable -tome of provisions, and of tho book contaning our journals. whimh, if lost, coubl never be rephaced. But eren apart
from my pertonal ferling for Zaninovich. I kemly frlt the re-
 oh glacion: and it gate me no comfort to think that my previon- axperiencen in this kimb of trateding own the glanices of (inemband appeared to justify my procerentines. Stung with theoer reflections. I preseal on at the top of my -perel. leaving (ored far behind me. Batheel with perepiration, I
 my - hawl. and ran in my -towking- through the deedp -now:
 of ('aper schrotter before me in the distance. The -uteres of my benture depondeal on the weather. If show driving should art in. and the footprints should be ohliteratem, it would tee imporible to find Hohenlohe Fland. All around me it was fearfully lomely. Encompaterl by whatios. I was

 -hout his name till I ahmest reached him, I failen to rown



 "anne to buder-tand that Zaninovioh with the -latge wat
 have taking the hame of what hat happenen on himorlf.









snow-slope. These were the friemel- wo hat loft behinel. A few words of explantion, with an exhortation to ahotain freme idle kamentations, were emough. Thery at one de dacherl a second lope from the large sledge, and got hold of a long tent-pols. Weanwhile I harl rushed upon the rookingmathime guthely melted a little show to duenth my raging thirst, and then we all set off again-Mallor, sussick, Lukinovich, and myralf - to the Midedendorf glacier. Tent and pmovisions were left unwatched ; we ran back for three hours and a half : frars for Zaninovich gave such wings to my steps, that my companions were seareely able to kerep up with me. Exer and anon, I had to stop to drink some rum. At the outaet, we met (Orel, and rather later Klotz, both making for ('aperebrotter. Kilotz to remain behint theres, and Orel to retam with us at once to Mirdendorf glacier. When we fame among the iceberge undel ('ape Habermann, I picked up. one beve one the clothes I hard thrown away: Rearhing the eltaciere, we tied omselves together with a roper. (roing before the rest I approached with beating heart the place, where the sledge had disappeared four hours ant a half ago. A lark ahtres yamod hefore u-: not a round iswed from its depthe not aven when I lay on the eround and shouterl. At lant I heated the whining of a doge and then an unintelligible an-wor from Zaminovich. Ifaller wat guickly lot down by a refore: he fomel him still living. but ahoot frozen, on a lextee ot -hen forty feet down the rerearac. Fastening himself and Kaminosich to the ropes, they wror drawn up after great
 -pereqhase thenugh he wate. When here abpeared on the surface





that I would jatrlon him if he. in order to sare limereff from being frozen. hat rentured to drink a portion of the rum, Which hatd falken down in its cate with the - leclege to lits lectre of -now: Ftaller again deacernded, and faterned the dege to a rope. The dever anmals had freed themeslye from their traces in some inexplicable way, and had -prome to at narmo
 lawl lain. It was antomishing low guiskly they diserened the danger of the position and how great wat thore eonfidenere in us. Ther liat slept the whole time. at Kaninovinh aftorwath tohl
 should fall down deep)ere into the abser. Whe drew them up) with some difficulty, and they wate expersion to their jos. first herolling themselver rigorom-ly in the -now, and then ber licking our hands. Wr then rabod Haller bey the rone somer ton feet higher thetn the lewlere on which Zanimesich hand
 the loading of the firmly woder in - leder. It this moment, ()red arrived. and with his hedp) we rated ond hes one the

 inupertance int the ereviawe.
()n April 12. 1-7. Payer and his mompation- attaimod





 (contration.

In the di-tant month. Whan monmath mamen indicated



in the high North. A document we enclosed in a bottle and deposited in a cleft of rock." The return to the ship was rendered doubly hazardous by the insecurity of the ice, and the increasing water holes.

The resulte of the journey may be summed up as follows Payer found the newly discorered country to be about the size of spitzhergen, and consisting of two large masses, Wilezek Land to the East, and Zichy Land to the west, intersected by numerous fjords and skirted by mamy islands. Austria found divides the two main mases of land and extends to $\$ 2^{\circ}$ N., where Rawlinson sound forks off to the northeast. The mountains reach a height of two thousand to three thourand feet ; glaciers abound in the ravines, and even the islands are covered with a glacial cap.

A third stedge joumey was undertaken by Lieutenant Payer on April 29 to explore a large island named after M'(lintock.

The momentous day, May 20, on which the Trgetthoff was abandoned, eame at last. Three boats were selected by the return expedition. Two of these were Norwegian whateboats, twenty feet long, fire feet broad, and two and one-hatf (leep) : the tharel was somewhat smaller.

The hummorke rendered their adrance diseouragingly slow. It wiza neeeseary to pass over the same short distance many times in the course of a days and after two monthe of indeceribable offorts, the distanere reached he the party was not more than two (Gemman milss. In oecetsionat bear. shot by the men, restored the waning strength and rourage, hat not until Jugust 1 . did the weleome sound of the open Water reakt their ears and in $77^{\circ} 40^{\prime}$ north hatitade, thes lamehed their boats. Nine day- bater they were pieked up hy Rusian fishermen off the eorat of Nova Zembla.

## ('H.\PTER NVI


 of čuta. - 1stis. - Nomdmajoml's jommey to (iremband. -




 mont distinqui-hed in Aretic history. Bome in Helsingfors.




 at storkfobm. Baron Vomben-kjoblds erfontifer intoreot in













 2!!

Torell, Nordenskjöld and Petersen undertook a boat journey to Ifinlopen strait and later visited the coast of Northeast Land. Passing North (ape and visiting Seren Islands, they reached their farthest, $80^{\circ} 12^{\prime}$ N., August 5, at Phipps Island.

Prince Oscar Land was reached a week later, and from a mountain two thousand feet high near (ape Wrede, two istands coutd be seen in the distance, to which were given the names of charles XII and Drabanten. Pushing their way east of Cape Platen, the ice conditions fored their return.

In 1863 Nordenskjöld again visited sjpitzbergen, and again in 186 t , when he was placed in charge of the swedish expedition, and tras accompanied by Dunér and Mahmgren. In a small boat of twenty-six tons burden, and provivioned for less than six months, they entered safe IFarlore at the entrance of the magnificent lee Fiord. After rounding the southern cape of spitzbergen, they entered Store Fïord, and visited Edges Land and Barentz Land. After entering IIefis somed and ascending White Mountain, they again rounded south Cape with the intention of following the west coast as far north as the ice would permit. (On this journey while off (harles Foreland, they rescued some shipwecked sators, whose vesseth hat beeome beset off seren Islands, and who had journeyed in open boate some two hundred miles in fourteen days. An immediate return was thus made neersiary but the results of the summer's work was a nap, executed hy Nordenskjöd and Dunér, which delineaters Apitzhergen with great ateramer

In twhs the swedish expedition had for ite objective point the Pole. The rofia was chosen for this purpose and commanded ley (edptain (Comet) F. IV. von ()tter, with Nor-

 and from this point the seffer mate two attempts for a high
northing. In the sootmd she was rewarted hy reaching on
 the farthere north attained hy any ship). A thired attempt to push the suffat through the impenctrathle pack resulted in her beroming disabled and neresobitated the return of the expertition to *Wertern.
 (ompanited hy Dr. Berquren, the noted proferor of hotany at Lund. The object of the experdition wat to pereetrate the unexphored interior from a point at the northern arm of a
 the diechareine elarier at Jakob-harem and two hundred
 lif inland fonmere on the 19th of July: Besike Dr. Berogeren, hos was as-isted hy two E-kimos, hat the di-luentemine


 to athatom their seders, and later the two mation reftacel

















To distrilnte fool intented for twentr-four persons anmong a pratty of sixty-semp was a serious problem, and was only accomplisherl by reducing the rations of all one-third. Hardly lat this blow fathen upon the prosereets of the experdition, when they were visited by four men with the overwhehning news that sis watrus-reserls had bern frozem in at Point Cerey and reape Wercome. By hunting it was hoped that the fiftyeight unfortunate men woukl manage to avoid starvation antil the first of Deeember, after that their only salvation restent with the generosity of Nordemskjoble The only relief (0) the appalling situation was in the fact that a swedish colony had that rear worked a phowhatie deposit at ("aper Thomeden. Lee Fiord, and the manager aftor abandoning the work hat returned to Norway, learing behind him a considerathke amomot of stores. (ape Thorsiten was distant two hamderd miles, hut seventeren of the walrus-hunters deternimed to undertake it. These men suceerded in reaching the depert. where an ample supply of ath the neesestaries of life atwated them -including a house, fuel, preserved and dried vegetalks, amd fresh potators. Iturdthes in one room, livines oni -att-lwef and prok, rather than go to the exertion of atathing themselres of the ample diet at hand - these men were attacherl bex *-rurs and not one survived the rigours of the
 but were eked out by the utilization of remedere moss mixed with rye flows, which prextared a vers lither lorearl.

This - earrifiere of the fool of the reindere ereatly erippterl




 ther exalis of the fort others.

The Aretie nieht wat paterd 1) the expertition in makines
sermentife ohererations. drenging under the iere and in mental and phasical exercise. In apite of erery precaution agamst the dreathel fore, sourve hoke out among the men, but was coreteme under at strict dide régines.

In - phite of the diestrome los of his reindeer and the de-
 tomporl hiv mothern formere the following opring. It frem Itands he was stopend be the iere, hut in ephe of this di-apmantume hre roncludel to visit Xigth East Land for
 oser immasable lmmmeks realted in his making (iape Platen amblatr ()ter lalams

The inereaterd langere of travel and the preanee of water


 "so that we might have thought omperdere to be adsancing




 bere Pan, and fimatly the party rewhed \an-al bay after ath atom ne\% of - ixty hame











Norelenskjölet saiked from Tromsoe, in the Proven, June, 1875, and sucerestully navigating the Kiara heareached an exeellent harbour on the eastern sithe of the month of the lemiseri, to which he gave the name of Port Dickson, in honour of Mr. Oscar Dickson, of (iothenhurg, for many years the liberal supporter of the Swedish expertitions.

To demonstrate that the Kara hea had not been more free of iee than usual in the summer of 1.57 .5 and that the route woukd be prateticable another reason, Nordenskjöld repeated his voyage in the Yimer the following year.

IIis long Aretic experience had hy this time eonvineed him of the feasibility of the northeast pasiage. To demonstrate this conviction, he entisted the patronage of the king of Sweden, Mr. Oscar Diekson, and Mr. Sibiriakoff, a Siberian proprietor of vast wealth, and the result was the purchase of the I Coge, which was liberally equiped for a successful expe(lition.

The Vege had been used for whato-fishing in the north polar sea, her register was three hundred and fifty-seven tons gross, or two humded and ninety-nine net.
Iner dimensions wer as follows :metres
Length of keel . . . . . . . 37.6
Lengeth over deck . . . . . . . -43.f
Beam extreme . . . . . . . S.t
Depth of hedel . . . . . . . 4.6
the had a sixty horse-power engine, whech recpuised ten euble feet of eoal per hour, developing an aremge speed of six of seron linots per hom. The fresel was a full-rigeed bark, with piteh pine masts. iron wire rigoing and patent reffere fop sats: moterestal atone she wats able 10 attain a spere of nime or ton knots. She carriod the SWe tish man-
 (rimmphantly thomghont a vorage which stambe in history as the first riremmandigation of Asia and Europe.

With Nordenskjoikl as lealer. Lieutemant Palander commandere of the ship, and an efficient staff of offieers and siemtists, which inehaded such men as Lieutenant I Iorgaard of the Royal Danish Navy, for superintendent of the magnetieal and meteorological work, F. R. Kjellman, Ph.D., Dooent in Botany in the University of Cpeata, and Lientenant (i. Bore. of the Royal Italian Nayr, superintendent of the hydrographacal work, the lege satad from (iothembure Jaly $f$, 187s, in eompany with her eomvoy, the Leme Port Dickion Whas reached on the morning of Jugust 10 , and nine dars later
 the most northern point of Sileria, Nordenskjölel writes:-
"We had now reached a great goal, which for conturies had been the objeet of meneecesiful strugeles. For the first time a resed lay at anchor off the northernmost eape of the of word. So wonter then that the oeremenene wats cedelnated by a diaplay of flage and the fining of salotes, and when we returned from our exemsion on land, by festivities on board, ly wine and toast."
"The north point of Laia forms a low promontory, which a haty divider into two. the castern arm projereting a litole ferther (6) the morth than the western. I ritge of hills with gently shange sides rmsi into the land from the eastern point, and afpears within sight of the western to reath at height of Where hambed metres. Liker the plain lying lelow: ther summitsof this range were nearly fee of sumw. ()nly on the hill-




 dicatar clift-. no high momatain summits. gato an! matural





On the 23s! the Tegu wats agein steming forward among the fichls of drift-iece The dificulties of royaging through unkomba waters overhmog with fogs and mists may botter he underistood by an aneedote deseribed hy Nordenskjöld, which ilhnstrate how completely a person may be decoived be - ize atud distane of oljoects:-
"()ne can searecly, without having experienced it," he writes, "form any idea of the optical illusions, which are porbuecel by mist, in regions where the size of the objects which are visible through fog is not known beforehand, and thas does not give the spectator an idea of the distance. ()ur wimate of the distanes and size in such eases dependes wholly on a acedent. The ohecure contours of the fog-concealed 0) jeceto themestres, bewides, are often by the ignorance of the -pectator comperted into whimsical fantastic forms. During a boat joumer in Hinlopen strait I onee intended to row atnong drift-ice to an island at a distance of some few kilometres. When the boat starterl, the air was clear, but while We were employed, as best we coukl, in shooting seat-fowl fon dinnor, all wat wrapt in a thick mist, and that so mexpectedly, that we hem not time to take the bearinge of the island. This lod to a not alogether pleasant row by guess among the pheceso of iee that were drifting athout in rapid motion in the sommal. Alf exerted themselyes as much as possible to get sight of the islank. Whore berach wouk affom us a safe restingplace. While thus ocerpiod, a lark border was seen through the mist at the homezon, It wats takem for the iskand whele We were bound for, and it was not at first comsidered remarkahbe that the damk horder rose rapilly. for we thought that lho mist wate di-persing and in consequenees of that more of the land was vi-ible some two white show-fimle that wo hat not ohserved before wope seen on both sides of the land, amb immocliatoly aftor this was dhamed to at seat monstor, rumbling a walrus-head as large as a mometain. This

Ent life ant motion, ant finally - -ank atl at onew to the hearl of a
 homet of the berat: the white thes- formond the show-fiedts ant the dark hrown round head the momatain. Fearee wist that ilhaton gome when one of the men eried out. 'Land right
 Ahnererghon. with momatain prak- and glaciers. hent this too sank a monerent afterward- all at onere to a common iere Borker, Batekemeal with warth. In the -pring of 1.a.3 Pherhander aml I with nine men matw a senter journey roumd Nontheart Jamel. In the conroco of this journey at ereat mathy beape wore sern and killent. When a bear was eforl while we Were trataing our stedge forwarl, the train commonly -tood -till, antl. not to friehten the bear. all the men conerated them-


 artainty.














 11:! $1+!\cdot$,

It had been understood that the Lent woukd accompany the Tega as far as one of the mouth-arms of the Lena River. But on the night of the 27 th of August, while off Tumat Iskands, all conditions being farourable, the ships parted company, after (aptain Johannesen hat recerived orders, passports and letters for home. "As a parting sahate to our trusty little attendant during our royage round the north point of Asia some rockets were fired, on which we steamed or sailed on, each to his destination."

Following an easterly eourse, through shallow open water the Tege all but marle the Northeast Passage in one season. Toward the end of september, howerer, she wat frozen in off the shore of a low plain or tundrat in $67^{\circ} 71^{\prime}$ N.., and $17.3^{\circ}$ $20^{\prime}$ W., near the settlentents of the ("auckehes, numbering about three hundred souls. The open water which to a late date in the season had favoured the progeres of the expedition, Was accounter for by the vohumes of warm water discharged into the Pokar Sea during the summer be the ereat siberban river systems. During the voyage, valuable natural history collections were made, and the sea bottom wats fount to ahoound in animal and regetahle life.
"When we were beset," writes Nordenskjöld, "the iee next the shore was too weak to carry a foot pasconerer, and the difficulty of rearhing the rescel from the lami with the means which the Chuckehes hat at therir disposed wis thus very sprat. When the native obsorved wh, there was in any case immerdiatoly a great commotion among them. \ten. Women, daldreth, and dogs wore soen rumning up) and down the beath

 splemtid opportunity wheh heve lay betowe them of purehasinge hrandy and tobaceo would be lost. Fome the vesed wo
 ont hoat . bat they were againg givern up, whtil at lat a hoat
was got to a lane, clear of iere or only covered with a thin sheet, that ran from the shore to the acighbourhood of the veserel. In this a barge skin boat wat put out, which was fillod brimful of men and women, regardless of the evident danger of navigating such a hoat, heavily lamen, through sharp, nowly formed iere. They rowed momediately to the vessed, and on reaching it most of them erimberd without the least liesitation orer the gunwale with jests and laughter, and the ery 'anouj, amoaj’ (good day, good day).
"Our first mereting with the inhabitants of this region, where We afterwards passed ten long montlis, Wats on benth sides very hearty, and formed the starting-point of a very friendly relation between the (huckeles and ourselver, which remained umaltered during the whole of our stiay."
"()n the 5 th of ()ctober," continues Nordemajiold, "the
 covered with splendid skating icre of which we atailed our-
 women and whildren were now sern fishing for winter wateh along the shore. In this sort of fishing a matn, who alwate
 a hole in the iereso hear the shore that the distatere betwern the cunder conere of the hole and the botorn is omle hati a
 lon a shopt time stoopinge fown at the hole, in which tho


 sern in the wator, ath angling line, providerl with a besok of



 fi-h on the ier with incerelihle dexterit?."
$\left[\begin{array}{lll}10\end{array}\right.$

Hunting and exploring excursions were sent out from the Fegit with varying suceess；as the reasons adranced the natives were threaterned with the usual seareity of food，wheh Wan largely relieved by the generosity of the Europeans．A most＂atrefiul and thorough study was made of these natives， thoir characteristies，mode of life，manners，speech，and （elustoms．
（）n July 18，the Tega was liberated from the ice，after har－ ing been imprisoned two hundred and ninety－four days．

After a lapser of thee hundred and twenty－sis years，when sir Hugh Willoughby made the first attempt at a northeast pascage，the Vege sated through Bohring strait，July 20， 1－7．），being the first resed to penetrate by the north from one of the ereat world oceans to another．The I＇ege an－ chomen at Yokohama on the evening of the $2 d$ of september．
＂（）n our arrival off Yokohama，＂writes Nordenskjöld，＂we Were all in good health and the Tege in exerdernt condition， thongh，after the long voyage，in want of some minor repatir， of fooking．and posibly of coppering．Naturally among thity ment some mikd attack－of ilhose could not be avoided in the roture of a year，but no disease hat been generally prevalent， and our state of health had constantly been exerellent．Of －＂urry we hat not socen a trace．＂

Ferm Lokohamat the news of the Fegres sureeres was tele－ Erapheal therewhont the work，and the homewarl journes of the exportion．via Hone Kong，Ningapore，Suez，N゙aphs， Liabon．（orochhagen．to stockholon was one of trimophant promes：eath conatry trying to ontato the othere in giving at mas wetemen to the wathant explomers．The Tequ reathere Sonkhetm April 24，1ヵゝ），after a jommey of twenty－two thom－and one hundred eighty－nime miles．

## ('H.MPTER XVII

British expentition of $15-5$ - The 1 lent and Discomery. - (apptan




The: British north polar experdition of 185.) comprised the Alfot, as serentern-gun -lomp, and the Disconery, originally a Dundere whater. Inder the supervision of the delmiral


$\because 10$ superintendernt of the Dockevard at Portsmouth sir Leopold I' ('hintocks) these ships were eompletely wordtanted, reemforeed, and :whirably ontfitom for tha serviar (asperedal of them. Lathly romel war -mpherl with nim" boats of varioula

 -rvice in Arctio Watror- (ircoat
 in -rfamimn of of-

and their social, moral, and physical qualifications were strictly inquired inte. To Captain (ieorge N. Nares, F. R.S., was intrusted the command of the experdition, and (ommander Albort H. Markham was phaced second in command.

On the afternoon of May 29, 15\%5, the vessels steamed out of Portsmouth harbour. At Spithead the sepualron was joined by the Titloromes, which accompanied the ships as far as 1)iseo. After a stormy but uneventlul voyage the expedition stood off some distance from ( ape Farewell June 2.). On the $2-\mathrm{th}$, a f abling temperature and a perouliar light blink along the horizon gave due notice of the im-modiateproximity of the ice. The weather homog thick amd foger, axtra per-


By permission of The Illustated Lenclon Virs. (ommatuler 1. II Martham
cations were taken to aroul cotlision with any iocteres. The following moming, the high, hotel, smow-capped hithe noar
 layity on the iece and hirde eommon to these rewem- heverent roumd the shij) s, alsakening the echoes with them glatsome
eries. On July 1, the little Danish settlement of Fiskernaes Was pasised, and later that of (iodthatal). (on July 4, the Aretie cirele was erossed, and two days afterwards the experlition was sately landed in the bay of Lievely, off (iodhaven ; the Inspector and inhabitants giving a warm and hearty wekeone. Stores wore now taken abourd from the ! alonoms, and every preparation made to plunge into the frozen nomb and meet the experiences of a long periond of enforeed isolation.

A dense fog soon neressitated making the ships latst to ireberge to await a more farourable opportmity of adrancing.
"Whilst attempting to secoure the ships," continues. Mark-
 despatehed contaming three men with the neressary implemonts, such ats an iore drith and anchor for making the versiod fiast. Is soon as the first how of the drill wise detiverede the berge, to our horror, split in two with a loud report, one half with one of our men on it toppting over, whilst the other hath swayed rapidly hackwards and fommards. (On this latter piece was another of our men, who was ohserved with his heels in the air, the violent agitation of the berg having predipitated hime head foremosit into a rent of erorasice. Ther Water alongside was a mass of seething foam and ipraty hot (arions to relate, the boat with the therd man in it was in no Waty ingured. They were all equertily reserned from their peril-
 than that inflicterl hy a cold hath. 'Thesir esceaper apmeated mirat"ulous."




 the 2lst of July, anchoring olf lpernavik the following morning.

Puthing behty through the midhe ine, the pascoge through Mefville Bay was sately acemplished and the North Water reached without incident. Arriving ofî the (ary IAfando on the merning of the 2tth, a wathe of provitions was landerl -ufficient to sustain sixty mon for two monthe. ()ther depots wore rached at ('ape Hawkes and ('ape Lincoln. By the 2uth of July both ships aune to ancher at Port Foulke, the winter (quaters of 1)r. Hate in 1st00. An (xcursion from this print was taken ly Captain Xiare and Commentro Mankhan to Life-logat (ove, the winter quarters of the remnout of the Poluris erew in 1si2 1sis Traces of that expedition were immerliately fomm upon landing: varions reties such as a trunk, an old harket linerf with tim. braces, stores. finetw of wood. gun-harrek, and odds and (hels hat strewn ahnort, I collection wat mate of such artirkes as were of any salne for the purpese of returning them to the Enitert states. Nares and Xarkham now proceredeal to Littleton I-tant in the hopes of finding an iron beat keft there by Ins. Hasco in 18ito. Though a careful search was mate no traces of it were disomederel.

Atere eqeetine a cairn at the southwe ent of the island on athersone five or six humdreal feet ahbere seat level, frem which 1, im (ape satine and rape Framer could be seen, the interwhing distance matiquble open water. (aptain Nitre and (ommander Mankham congratalated themedres on the phatpert of raphid proveres.

A fow heme after the return to the thip the farourable eon-





 we were suljecentel the waymat will of then pack." weine

Commander Markham. (on the 19th of Aughet. he sare, "During the last thee week we had atlvaneel exarety ninety miles, or at the rate of ahone four and a chuarter at lay. This (ammot be eom-idered a rapid rate of traveding, yet to acomplish ewen this nerewitated a "onstant and vigilant lowkent."

Pushing their way steadily onwarel, they pasel\} (atoc
 gut, while threading among the ierefloes that bordereal the cratet, a herd of muk-oxen were wern browing on an adjacent hill. A shooting party wit sent ashore, which sompatenl into thres partios upon landing and advenced cautiondy toward the epot where the animat- were eren grazing. ro sucersoful was the hunt that twenty-one humber and twenty-


The hartemer in which the shipe were anchored pocerowerl ath the neresary dualifications for comfortable winter (quartere, son that (aplain Nares dereiters to leare the Disemery abul proeeed with the Alert. Everghtheng laving been suti-facterily
 on the morning of the 2bith. prohing her cantion way along the west shore of Kimmeds (llemmel. "remomber let

 Aretio reweurch. ate at reab lether hay in the ammato of maval
 at Brition man-of-war reacheol a higher momben latitula than
 and we hat the extreme gratification of hoi-ting the comons at mon to mentrate the event."
 Wrotward of nowth. further adrance heremm ingor-ikde: and
 1 mome drandate perition in which to be-e the winter condld hamelly lis imaminal.
"Without a harbour," writes Markham, "or projecting healland of any description to protect our good ship from the furious gusts that we must maturally expect, the Alert hay, apparently, in a vast frozen oecan, having land on one side, but benneded on the other by the chatic and illimitable potar parck."

Ifter a pretiminary stedge journey to aseertain if a more sholtered harloour might be sought, it was derided to winter in their present position. Preparations were immediately made to secure the ship to "Floc-herg learh," and plans were tail out for autumn stedge journeys to deposit caches of provisions for the following spring. On the 11 th of septomber, Mtarkham, Parr, and Egerton, arcompanied by (ighteren men, mate a journey northward along the proposed reute of exploration, for the purpose of advancing two boats to be wed during future stedging operations. (On september 2.), Commander Markham, with Lieutenants Parr and May, awisted by members of the erew, sot out upon another journey: they reacherl, October $4,82^{\circ} .50^{\prime}$ N... off ('ape Joreph Homes and a depot was established. The return journey bereme most irksome and laborions. The show had acenmulated to such a depth as to remeler some of the ravines and promentoricu almost impasatable. A surkden fall in temperawareproxtued severe frost-bites. On the 1 th of Octolere, in a temaneature of $2.0^{\circ}$ Defow zero, the exhausted party reached the ship.

Proparations for the winter having been finished and the slodging partios ath having returned, there was little keft to do hut await the coming of the sun, which wat aheent one hom tred and forty-five days, huring which officers and crew mited in kenping up chererul spirits and good heatth he the wasal exercion, amusements, and routine of daily duties.

Barly in March, 1566, an attempt wat made to commmi(ate with the Disomery. Lientemant. Egerton and Raw-
man were seldeded for this journey and were ateompanied by Petersen, the Damish intempeter and stolde-driver. On the reth of Mareh, in a temperature of $30^{\circ}$ below zero, the party loft the Alow, cerrying mensuge, letters, and instruetions to these abourd the sister ship. The temperature fetl very low soon after their depature, and on the thind day they unexpectedly returned with the poor Dane utterly prostrate and helplest on the sledge.
"I cannot do better them relate the sad story in Dicutenant Legerton": own work," writes Markhem. "IVe read in his official report, that not five hours after they had left the ship 'frosthator becemme sommerom, that I thought it adrisathe to 'meamp.' 'This wat only the begiming of the story, fer they appear to have peason! at comparatively comfortable night. It aby rate they were up) (eatly the next momine and again meder weigh ; at atout one obedock, when the hathed for hume Pextersen comphamed of cramp in his stomach, :mut wat given somm hot tea. He hand no apletite, which



 traveding. which mexwitated werese phase: hatom on the
 gratiag amere hase Nopes, as it was impesithe to get them to

 Towamb the end of the das we read: 'Pedersen hewan to



 with mate um:
"Wh hathing for the night," romtinues Markham, "directly


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$\square$

the tent was pitehed, they sent Petersen inside with striet injunctions: to shift his foot gear and get into his steeping bag, whilst they busid themetves in preparing supper and attending to the dogs; but when they entered the tent they found 'that he had turned in without shifting liic foot gear, was groaning a good deal, and complaining of cramp in the stomath and leg..'
"Having made him change, they gave him some tea, and theos administered a few drops of sat rohatile. Which apperarent to give the porer follow a little cate. The next moming, the wind was so high and their patient in such a weak otate that they dial not think it prudent to attempt at start. He had paseed a very resthes night, and still complained rery much of cramp. Later in the day he appeared to get wores, 'whaking and shivering all over and breathing in shert gatps. His fate, hands, and fert were all frost-hitton, the latem wereely, and he hat pains in his-ith as well.'
" Ifter rewturing the cirentation they rubbed him with warm flameds and plated one of their comforters remud his stomach. In such a wretcheot rato was the peow forlow that they agreed it would endanger his life if they mooseded on their jewrence end that whem the weather moderated. the only comme they conld pursue waw to return with all hate to their :liip.
". is it wat impresible to kemp their pationt wam in the

 amb atl their tont rober. chocing the :aleeture he phacing over it the temt and shedge. There demitenl themedres of the ir awn slothing tor the bencfit of the invalid. when frozon feet


 proer feflow was new in a rery low state; he condt matan
neither food nor lifuid. About 6 p.sis he wits very bad; this time worse than bofore. There appeared to be no heat in him of any kind whatever, and he had achete pains in the stomach and back. "We chafod him on the stomadh, hands, face, and feet, and when he got better wrapped him up in ererything wam we couk tay our hands upon," nannely their own clothing, whids they could ill afford to lose ; hut they entirely forgot their own condition in their endeatrours to ameliorate that of their commade. Lighting their epirit lamp) and carofully dosing exery cevero by which the rold air could enter, they sucereded in raising the temperature of the interior to $7^{\circ}$; hat 'the atmosphere in the hut berame somewhat thick.' This wate, howerer, perefable to the intense sold. Let us foltow the story out, and learn how nobly these 1 wo officerse tanded their siek and suffering eonnpanion. "We were constantly akeng if he wats wath in his feet and hands to which he reppled in the affirmative; hat before making him comfortabler (fance being comformble mater such eireumstanees) 'for the night, we examined his foet. and found them both perferetty gelid and hard from the toses to the ankle, his hands notary as heth. So ceach taking a foot we set for work to warm them with our hands and flammels,
 persons, and akso lit up the epirit lamp). In albout for hoors's
 down to athew him more rome to move in, and then wraperd hime up in the epare eoverped. Itis hamele wo ake broweht romel and bomed them up, in flannel wrappers, with miths






upon examining his feet found them in much the same state as bofore. We rubbed and chafed them again for over an hour, and when circulation was restored wrapped him up agam, and so passed the third night.'
" ()n the following morning l'etersen appeared to be slightly better, so thinking it was preferable to run the risk of taking him back as he was, rather than to pass another such night as the last, they put him on the sledge: and, having hurriedly eaten their breakfast, they started for the ship with all despatch. They had a rough journey before them of eighteen mikes; but they knew it was a case of life and death, and they eneouraged the dogs to their utmost speed. The dogs, being homeward hound, were willing enough and needed little persuasion, so that, for a time, they rattled along at a good pace. But actual progress could not hase been very rapid, for we read in Eqerton's report that the patient's 'circulation was so feoble that his face and hands were constantly frostbitten, ontailing freopent stoppages whilst we endeavoured to restore the affected parts.' The difficulties of the homeward journes may be sathered from the following extracts: 'On arriving at the l3ack Cape we had to take the patient off the sledere, and while one assisted him round, the other kept the dogs back, for hy this time they knew they were homeward bound, and required no small amount of trouble to hold in. After getting the sedge romed and restoring Petersen's hands and nose (which were almost as bad again a few minutes after), and secouring hime on the slodge, we again set off. At the cape the same difficulties were experienced, in fact, rather more, for the sedge took a charge down a "diteh," afond twontr-five foet deop, tuming right over thros times in its deserent, and out of which we had to drag it, and white dearing harnese (which emphoyed us both, one to stand in front of the dogs with the whip, while the other cleared the lines), the doge made a sulden holt past Lieutemant Rawson,
who was in front with the whip, and draged me more than a hundred yards before we could stop) them. At length, after the usial process with I'etereen (that of thawing his hathes and nose, which we did every time we cleared harness, or it wat actually necessary to stop), we got away, thankful that one troulbles were over. The dogs got their harness into a drewtful entanglement in their exeitement to get home, lont we were afraid to elear them lest they should break away from us, or catuse bis any delay, as we were both naturally anxious to return with the utimost speed to the ship, and so relieveourselves of the serious responsibility oceasioned by the very precarious state in which our patient was lying. [pon arriving alongide at $6: 30$ r.m., we were very thankful that Peteren was able to anstrer us when we informed him he Was at home.'
"In conchasion Lieutenant Egerton says:-
"I reereet exeeedingly that I have heen compelled to return to the ship without having aceomplished my journey to II. MI.s. Disconery ; but I trust that what I have done will meet with your approval, and that the course I atopened may be the means of hating leseened the very serious and distressing comblition of Petersen.' "

Poor Petersem never reeovered from the effects of his tomible experienoer. Ife gratually sank and died peacefulls, On the 1 thth of May.

The work of these tivo brave young efficers on this oc(athon stands ont conspicuously amongst the many derds of darme and derotion with wheh the amealiof Aredir adrentare atoomal. Five ditse after their retiom to the ship) (20th of



 -hip and were warmly welconed hy her offeers and erew.

I)isco Island


The serious sledging work of the expedition was undertaken as early in the season as April 3, in a temperature of $33^{\circ}$ betow zero. Seven stedges under the command of Aarkham and Aldrich and manned by a foree of fifty-three officers and men started on that day for the long-cherished object of reaching the Pole and of exploring the northern shores of Grimell Land. "On the sceond day out," writes Markham, "the temperature fell to $43^{\circ}$ below zero, or $77^{\circ}$ below freezing point. The cold then was so intense as to deprive us of sleep, the temperature inside the tent being as low as -2.50, the whole period of resting being occupied in attempting to keep the hood in eireulation. Several frost-hites were sustained, but they were all attended to in time, and resulted in nothing worse than severe and rery uncomfortable blisters."

By the 10th of April the depot of provisions established near ('ape Joseph Henry during the autumn was found undisturbeck. At this point the supporting sledges returned to the ship, and the two divisions separated and advanced on their solitary missions. The northern division under Narkham, with two heavily baden sledges and seventern men, leaving land pushed straight out into the ruged polar pack. Handicapped hy the two boats which they carried, and in dread of an open polar sea, they advanced, after abandoning one of the boats, seventy-three miles, hut the adrance being made with divided loads, more than two humderd sementr-wix miles was actuatly covered. Reaching the farthest noth up to that time, $83^{\circ} 20^{\circ}$ N… $6 t^{\circ}$ Wi, May 12. 1s 76 , the depleted condition of the party and the ruged conditions of the ies-floe- forecel the quallant Mamkhan to retereat.
"It is unnecessary to describe," writes Markham, "the incedents that secoured on wath sucesmive date during the return journes. Show fell heavily, during the greater part of the retum fonmed, and fogs were very prevalent. (iales of wind had to the condured. for to hate was ont of the cquestion

- fese there was nome - onward was the order of the day. Is the disease grathally astumed the matery ower the party, so did the appettos clecrease, and in at very alarming mamoer, until it was with the greatest diffieulty that anybody coukd be induced to eat at all. Instearl of each man risposing of one peomed of permmiean a day, the same duantity suffieed for the entire party in one tent ; and even this, ofeasionally, wat not consumed. Nor was the subject of eating and flrinking so often disenssod. During the outward journey, heefisteaks and onions, mutton chopes and new potators, and Basz's beer, formed the chief topice of conversation. ()n the return journey they were seaterely abluded to. Hunger was never folt; but wo were atl assailed hy an intolerable thirst, wheh could only he apheased at meal times, or after the temperature was sufficiently high to achmit of (quenching our thinst ly putting icicles into our mothth.".
()n the 27th of May the condition of the party was so eritical that it became evident that to insure their reaching the shipe alive the stederes mun be eon-iderably lightened. F゙ise men were ut terly unable to move, amd were eonsequently farriod on the shodenes, five more were almost at helplese. but insicted on hoh hbing after the shedges. Threenthers were showing decisted seorthtie symptoms, keaving only two


Torrat firmat was reathed on Xay .), hut the pary were in

 sow that it mondel take them fally there weeks to erover the




 (ommblish what he hat matertaken, amb with the komwhedge
that he persessed the full eonfidener of those for whose redief he was about to start on a kong and hazardous walk. ()n the 7th of Juns, limatemant Parr started on his arduous mareh to the ship). Derep and heartfelt were the (ionl-ipeeds uttered as low took his. departure, and anxionsty was his retreating form watched motil it was gradually lost to sight amidst the interminahle hummocks."

The fotlowing day one of their number died, and wats buried near by. The saddened and suffering party now left this desolate spot and made an attempt to push on toward the - liip).
"()n the morning of the 9th," writes Namkham, "a rainhow Wats seren, which, being an mmusuat sight, afforded much interest. On the same day, shortly after the mareh hed been fommencerl, a moving objeet was suldemherem amidst the hammareks to the southward. It first it was regarded as an optical ithusion, for we eould scareedy realize the fact that it
 ety this of jeed wate regarded is berond deseriphtion. (iradually comerging from the hummocks, a hearty ehere put an end 10 the shipernse that was ahmost agomizing, as a dog-stedge with there men was sern to be apponathines. I eherer in retarn was attempted, but so full wore ond hearts that it re*(ombled more a wait than a cherer. It is impessible to describe orar ferlinge ds May and Mose (eame bat and we reecived from them a wam and heamy wederne. Ulo felt that werere
 mos in whe mime. st we shok the hends of these who had hamed ont to ond peliof the monemt thest fare hated compered





"Wo heard with delight that they were onty the vanguard of a karger party, headed by ( $a p$ tain Nares himself, that was coming out to our welief, and which we shouk probably mert on the following day. A halt was immediately ordered, cooking utemsits lighted up, ice made into water, and wo wore soom all mjoying a goorl pamikin full of lime-juice, with the prospect of mutton for supper!"

On the lith of June, afteresenty-two days of travel and hardship, (ommmader Markham's party reamed the Alert. Ont of fifteen mem, one hat gone to his long home, eleven wthers were carried alongsite the ship) on sledges, the remaining three barely able to hobble aboard.
" A more thorough break-mp of a healthy and stromg hody of men it woukl be diffeult to eoncerive," comments Markham. " Not only had the men engaged in the extended party under my command heen attacked with seurvy, hat also those who had been absent from the ship only for short periods, and some Who may be said never to have left the ship at all, of if they did, only for two or there deys ! The seeds must have beren solwn duming the time, nearly five monthe, that the sun was absent, and we wore in darkness."

The sertens contetion of the cerew of the Alemt determined
 immediately upon the return of the othere sedee parties her
 the ship home. Ther Alay would memain at seoomel winter at



 immentiathy : chamer for the helter was motiond amomes all hambl-


and it was hoped that a supply of hares, gecese and perhaps mask-oxem might orcasionally be seerared, wery one knew that his supply of provisions wat all but exhan-ted, and for the parpose of his relief a party of there ment unde? Lieutemant May left the ship) June is.

The intervening time until sunday, June 2.), was one of great concern to all on board; on that day the wanderers were seen strugghig through the hmmorks some six or seren miles off. A relief party immerliately left the ship and brought the then on boarl. All but two were sufferme from scurvy, ()nly Lientemant Aldrich and two men were able to walk atongsirle the ship, and one of these was in a criticetl condition for many weeks after. They had heen abserent from the ship dighty-four days, having explored two hundred twenty miles of new coat. Pasing ('ape ('olumbia, $83^{\circ} 00^{\prime \prime} \mathrm{N}$. Lieutenant Aldrich reached his farthest point on the 1 sth of May, 1 s 66 , in $82^{\circ} 16^{\prime} \mathrm{N} ., 86^{\circ} \mathrm{IV}$., at ('ape Alfred Ermst.

It now herame the ardursus work of the fer members of the ship)'s company who were in good heatth to mini-ter to the numerobs invalids, prepare the ship) for leating winter quarters as soon at the ice would permit, and make hunting trip) in rearch of fresh meat, so wesential to the wure of scurve patients.

On the 3lst of July, a fresh southwoterly wind had hown the pack off the shore, a clesur chamed of open watere to the southw: whe waited with delight. The theohthing of the an-
 hathe faremoll to her northern home. Progrese wat - fow, amd

 mikes distant from the sister ship. Ratwon and two of the ment of the Disenerety eame on bearat.


then wr leamt that poor Segerton had lone his way, and did wot arrive on board their ship unt after he had Deen wandering afout for righteen hours! The nems from the Disconery Was what we feared. Notwithetamding the latere amount of mow-ox fexh procured by them during the atutmon and following summor, sedury had attackod her crew in almost the same virutent manner as it had ours. The return jourHers of some of their sedge matios were simply at repetition of our owa. Beatmont's division - the one exploring the northwestern coast of (ireendand - had sufferel bery severety, and we heard with extreme receret that two of his small party hat sucembed to this tembibie disease. The rest of his mem, with himself and Dr. ('opphanger, had not pet returned to the Jisconery, having remainme in Polaris Bay to recruit their hembths. This was, indecel, a bitter emoling to our spring (atnip)agn, on which wre hat atl set out so futh of enthusiasm
 Sires in his resolation to procered to England."

The exathent work dome hy the shedging pamtes from the


 mathe extravion explmathan of ther fererolamel roast. Ho hat travelled to Remake Uambour, following the cont io






 '!amh (in! Harixn.


oceasion rerpuirex. "It was with no suall amount of thankfuhnes." writes Markham, "that on the ! the of spptember We emerexed from the cold erim clutehes that aremerl only too ready to detain us for another winter in the realmes of the Ice Kinge and that we felt our ship rise and iall mee more on the hosemn of an undoubted ocean swerll."
()n the 29th of ()ctober, 1876, the two shipes rearhed Queensfown, hating paserel the Petmbio in misl-ocean. The two verates of this gullant little ship will now be taken up).
"The objeets of the first vogace of the Panden'te in 187.5." Writes sir Allen Vomg, "were to visit the western coast of Gireonland, thenere to proceed throush Buffin sca, Lencester somml, and Barrow Strat, towarls the Nagnetic Pole, and if presticable to navigate through the Torthwest Passage to the Paccific ()cean in one scaton. . L-, in following this route, the P'ondores would pas- King William Iskand, it was popoed, if suceresful in rearhing that locality in the summer seation when the snow was ofi the land, to make a seareh for furt her rexemels and for the jommals of the ships Eetomes and Teror."

The Pam!ore wat rigeal as a barkentine and carriol right boats, including a strum cutter and there whate-hoats. Iter offerer- and (rew numberel thirty-one mom, with ('aptain lome in commant. The expernes of the expertition, and the





 enatored. The followine dey ther -aw the fir-t - pitahereen



Fon after ther stox wh ther entrance of Ar-ak Fiomel:


Cirecenland, and near Arsuk was the old Norse church of Steinnats. "The whole roate," writes Captain Young, "from A. E. to N. N. E. -toon before us like a panorama, and the sea so calm, and everyhing so still and peaceful, excepting now and then the rumbling of an overtuming herge or the distant echer of the floes as they preserel together to sedward of us, thent it ahmost reemed like a transition to some other workl."

It Irigtat, where the P'antore put in to coal, ('aptain Foung hasl the pleatime of risiting his old ship, the Fox. At Irigtat alos are located the famons cryolite mines, discoverel ha thr Dani-h miwionaries who first echt -pecimens to (openhagen as ethomeraphical curiosities. Ther eryolite is foumd hear the shore, resting immediatedy upon encis. The purset is of -now-white colour, the grayinh white variety bemise seond in quatity. It much revembles iere which has beren curval and grooved hy the action of the sum's rays: its component parts are double hyotroftate of soda and alomina. It melts like ire in the flane of a comulle, and it is ueed principally for making sota, abo for mepating ahminum.

The P'ontono wat highly favoured by the singularly open condition of Xedville Bay: berers proverl plentiful, but no dreated iswefloe imperket her progrese. I whange in the iee eondition- wat firt moterable while off the ( ary I fands.
 smend. ther P'ontomen foll in with the ief the 20 oth of Augu-t

"There beatr being seren on the iere." writes ('aptain







most wonderful cnergy in trying to attack any one who came within reath, and especially our dogs, who semed to dedight in trying his temper. If wats at last seeured on the quarter deck with a chain round his neck and under his fore arms, and soon began to feed ravenousty on - I am sorry to have to write it - his own mother, who was speedily cut up and picces of her flesh thrown to my new shipmate. I hope that he wats only an adopted chikd, and the great difference between him and the other cul warranted this supposition, as, being three times the size of the other, he could not have been of the *ame litter." I few days later we read, "Our new shipmate, the bear, mate desperate struggles to get over the rail into the sea, hut the chain was tightened, and at last he went to steep."
()n the 23d of Jugust, a barrier of ice across Lancaster sound obliged (aptain Young to retrace his steps. Snow, sheet, and wind prerailed as they seluded onward, an ice hlink frequenty ahead; then the ineritahle floe in stremms and loose pieces, with the sea dashing orer them as they flew hetween.
"White we were in this situation," ('aptain Young obererves, "our bear graduatly worked himsedf into a state of frantie cxcitement - getting up to the rail, - watching the floc-ice rapidly dashing past our side - and in his attempts to get over the batwarks, he released his chain matil wate evident that in a few moments he would be free, whe the to dive orerboard or to rum amuck among the watch appeared a denestion of donde. The aham heing given be lirie, who wat writing up the deek loge, the wateh was catted to seecure the beare, and I fear that during the half hour which mapsed the ship was keft, mere or lose to take care of herself. The whote watch, bewide Pirie with a revolver and myedf with a erowhar, atseultend the unfortunate Bruin, whose frantic strugule and madeavours to attack eyery one within reach were puite as much at we coukd control. He wat loose, hut hy a fortunate
erent a rumning noose was passed round his neek, and the poor brute was hauled down to a ring-holt until we coukd secoure the chatin romad his neck and body. I had hitherto wo conerption of the strength of these andands, and especially of the power of their jaws. Fearing that the inon crowhar might injure his teeth, I jammed a mop) hande into his mouth while the others were securing his chain, and he bit it completely through. It last Bruin gave in, and beyond an oceasioned strugere to get loose, and aconstant low growling, he gave ns no further trouble. I ought fomention that in the midst of the serimmage the Docenor was (atled up) to give him at dose of opium, in the houxe of subphine him by this means: but having sucereded in getting him to swathow a piece of blublere saturated with chloroform and opiom sufficient to kill a dozen ment, our bruin disl not appear to have expericeneod the slightest efferet, and the I oretor, who volunteerex to remain up, and expresest some anxioty as to the bear's fate, retired below somewhat disappointed."

Making Barow fitait for the purpone of reathing becehey

 ('aptain Young and two offerers inseredel the state of porovisions and boats at Northumberland Honte. It will be rememberes that Northmmbertam Jou* wat built hy ('ommanker Pullen of the Vorth star. which wintered there

 of the lower mats and epars from the Smerican whater
 in ls.ie.




baker, and seat ererl the contents in atl directions. The hourr Wats nearly full of iee and snow frozen so hard as to necersitate the use of pick-axe and crowhar before anything conkd be mored. Teatehests and beed easks had been broken open and the contents swaterex or devoured. The place presented a serene of ruin and confusion, atthough there ware no traces of the place having been visited by human beings since the departure of sir Leopold M'Clintock in the Fo.c', the 1 thth of Alugust, 185\%3.

I eask of rum had remained intact, "a conclusive proof to my minel," writes ( 'aptain Young, "that neither Eskino nor British sailor had entered that way." The boats, liowerer, Wern found in good condition, and had escaped the ravages of time end wikd animals.

Weighing, anchor the Pendore stood to the southward for Peelstrait. ('aptain Young visited a "airn in wheh a record


An attempt was made to push through to Bełfot sitrait, but the fast closine in of the iee determined (aptain Joung to retreat and abandon his cherished home of making the Northwest Passage flis year. I race with the ice to Cape Remmed ant at second visit to the (ary latands resulted in
 heought glat tikings to frionle at home lsy the 11 the of
 ton miles distant, "the wiod fresheming to a gate, with a high flowinges sed. Which firoze as it happed our sides."
( ${ }^{\text {appe }}$ York wat patax tho next day. I stormy patate
 rewherl the hartoune of (zowhaven. Ifter a four days stay at Coutharen, she continuad in here coures ; on the lat of Weteher she stoot southward of the cape, steering direct for the Lhelish ('hamel, and anchored at sjuitheat, the liath of


The Pandore put to sea on her second rovage from the Simathampton Docks, May 17, 1876, for the double purpose of making another attempt to sail through Ped and Franklin -traits, and navigate the coast of North Americat to Behring strait, and to carry out the instructions of the British delniralty in an attempt to conmmmicate with the . leet and Discorery, at Littletom I-land or Cape Isabella. Proceeding under suil, she reathed (iodhaten he the $\overline{\text { th }}$ of Juls:

Here desolation and glom seemed to overwhelm the little settlement, owing to the storehouse having burned and con--umed the antire winter's production of oil and blubber, some two hunderd barrels, an well at all the store belonging to the lonited stater Polderise experlition. Such a disather to the poor (ircembunders was quite as great a catastrophe as the hurning of half of Londen would be to a Britisher. However, a cordial welcome awaitel (aptain Young from the howitable natives, and. "In fact," he writes, "we theroughly enjoved our -tay in port, and all made great frimelo with the (ireenlander-. The only dratwark wat catuod be the ghantite of the most
 thoroughly to torment us. I never in any chmate knew suth
 we went either on shore or in a hoat, and (reen on board alip, there followed ha perwistently amd at whaterer home night on days it wate ahwas the same. I wat thio time mene hitten
 -wollent amt once of my expe shat ul."

 -uk. and putting in for cont :at Kolliot. Be the 1oth. Ahe




mate progrese extremely difficult, and the complieations of thon-ands of iechergs, of every conceivable form and shape, interminghed with the drifting floes of ice, almost blocked the way to the north.

The following days were passed in the greatest ansiety bey ('ap)tain loung. The Pandorre was bese in the iorepack of \aville Bay, and in spite of basting with gunpowder all around her, where the pressure was greatest, the enormous iechergs driving through towards her position threatened her destruction at any moment.
()n the 29th of July, a frightful storm dismpted the park, ancl, after twenty-four hours of imoertainty ancl danger, the l'mentore steatacel her way, inch by inch, yard hy yard, into the oferl sea. "(heers burst spontaneously from the crew as we lameher! ont into the ocean and made all sail to a fair wind from thes. W..

The "North Water" at last, with thewholeseason ahead and a stratidt course for C'ape York and the Cary I-lands; a brief stop to examine the Pandore s. depot of the previous year, and by August 2 the ship was pasing west of Hakluyt Island. A -top was made at sutherkand Iskend for the purpose of finding any despatches from Captain Nares that may have been left there, but only Captain Hartstein's recork was found, left theme Angust 16, 18.j.), when he touched at this point in his search for Dr. Kane.

It Littloton IStant. which was reached August 3, Captain Gomer was mone sucecesful, and a record writem July 24, 1575 , and left there le (artain Nares. save full information of the British expertition up to that date. As it was evilent that no sodging party had tonerherl at that point in the epring, (:aptan Younce mi-cion wa- orer, and he turnech his attentimen the man obioce of his voyage, that of attempting the

 ton lelemi and ('ance dlexamber.

Touchine at (ape Isabella, Limberants Arbuthot and
 tain Nare- beit thereduly 29, 1nö. Letters for the I le et and
 at thi- point. A serond attempt to ratach (ap) I-aberla for the burpose of a more thorongh examination of a ca-k,

 Pondera's -pernding three werk- in at -trugele with the iefe for an apporeach. When (etper I-abolla was finally reacherl,




 park. Topmoceal morthwarl hatlacembe ond of the chatame

 ber-mal di-x














undertaken for the purpose of discosering the Franklin pecords, should they still exist on King William Land, or in the vicinity of the route taken by the survivors of the Erebus and Teror.

Licutenant Frederick schwatka was of Polish descent, American by birth, and had served with di-tinction in the Thind ( avalry. His daring and courage led him to a desire for tretic adrenture, and, having secured leave of absence from the govermment and the support of the National (ieographe society, he lefi Sew York on the 19th of June, 187S, in the Esther, with four companions, uncler the following instructions: -
" L'pon rour arrival at Repube Pay, you will prepare for your inkaid journey by building your sledges and taking such proviaions as are necersary. Is soon as sufficiont snow is on the eround, you will start for King William Land and the Gulf of Boothia. Take daily observations, and whenever you discorer any error in any of the charts, you will correct the satne. Whenerer gon shall make any now discoreries, you will mark the same on the charte ; and important discoveries I beree to be named aftex the IIom. ("harles P. Daly and his estimable wife, Mes. Maria Daly. Any reforls youmay think nemesary for sou to lewe on the trip, at such place as you think heret, you will mark 'Esther Franklin Aretic sorech Paty: Frelerick Achatatka in command: date, longitude. and latitude; to be dipeeted tos the President of the National
 Stombly fon be fortunate in finding the reeords, remains, (n' mic*- of *ir John l'ranklin or his unfortunate partry, as I hate hapme yon will, som will keep them int your or Jows onntrol, whet the content- thereof shall bo kept seereet, and ne jart therent ibstrosed, tampered with. on low. Shonald gou find the remmins of sir Jom Franklin of any of hic party, fou will take the sime, have them properly taken care of, and bring
them with you. The carpenter of the Esther will, before you start on your sledge journey, prepare boxes necessary for the (eare of relics, remains, or records, should you discover the same. Whatever you may discover or obtain, you will deliver to ('aptain Thomas F. Barry, or whoever shall be in command of the schooner Esther or such vessel as may be despatched for you. You are now provisionel for eighteen months for twelve men. I shall next spring send more provisions to you, so that in the event of your trip, being prolonged, you shall not want for any of the necessaries of life. You witl be careful and economical with your provisions, and wifl not let anything be wasted or destroyed. Should the expedition for which it is intended prove a failure, make it a geographical suceests, as you will be compelled to travel over a great deal of unexplored country."

Winter quarters were established at Camp Daly on the shore ice of Hudson Bay, and intereourse kept up among the natives of Chesterfield Inlet, for the purpose of enlisting their support on the sledge journeys plamed for the spring and to secure all available information regarding, sir John Franklin or his unfortunate arew.

By the 1st of April, the sledge party started on the long march towarels King William Land. Licutemant Sthwatka was aceompaniod by the original party of four white mem and fourteen Eskimos. The sleds were drawn by fortertwo dogs: the loads aggregated aloout five thousand pomed on the day of starting, comsisting largely of walrus meat for the dogs, a liberal crquipment of grons, ammuntion, and ant icles of trade, besides the following list of provisions:-





Itss.
Oheomargarine ..... 40
(heese ..... $41)$
Coffec ..... 40
Tea ..... 5
Molasses ..... 20

This, it will be seen, was only about one month's rations for seventeen people, and was, in fact, nearly exhausted by the time the party reached King William Land. Dependence was placed on the hunting and abundance of game; five humdred and twenty-two reindeer, besides musk-oxen, polar bears, and seals were secured in the course of the entire journey.

Travelling overland to the Back River, the party experiencerl all the fatigues incident to slectge progress, especially the Americans, who, unaceustomed to long marches, suffered greatly from hlistered feet and muscular sorenes. The country seemed alive with game, and on the 11 th of Day seven reindeer were killed and on the 13 th as many as nine.

The northern shore of the Back River is hounded hy high hilks, almost a mountain range, and inkand eould be seen rocky hills piled together, barren and forbidding. About noon on the 1 thh, the party eame upon some freehly eut blocks of snow turned up) on end, - a sure sign of natives in the vicinity, and farther on fontprint- in the show as well at a cacho of muk-oximat. Following the tracks after breaking (amp the nest day, the party soon reatherd several ighoos. and rommonication wa- immediately satahlisherl with the inhahitants. The chiof spokerman was an ()kjoolik, who with his family comprised all that wes left of the tribe which formerly oecemped the wertern coast of Adelaide Peninsula and Kine William Land. From this interesting and important witnes nath infomation about the Franklin party wat gaincal. Whan quite a little boy he had seen some white men ahtore ancl from the deroription it might haver bern Lientomant Bark and his
party. Years later, lee sum a white man deal in the bunk of a big -hin), which was frozen in near an island about five milos wort of (irant Point on Adelaide Peninsula. He and his son had woent the track- of white men on the maintand. The natives had bearded the ship at intervals, and, not knowing how to uas the dores, had cut a hole in the side on a level with the iee and entered for the purpose of realing wood and iron. In the following spring, the ship had filled with water and sunk. There were exidences that people had lived aboard the ship, ar some cens of fresh meat mixed with tallow were found. There were knives, forke, -poons, pans, cupe, and phates aboard, and afterwards a few articles were found on shore after the wessel lad gone down.

Another native deweribed seefing two hoats on the Bark River containing white men, and he also satw a stone moniment on Montreal I-land containing a bocket knife, a pair of scisors, and -ome fish hook-, but no papers of any dearription.

After an encampment of two days and a half, Lieutenant fichwatka continued his journey accompanied by some of these native at gudes.

In native eneampment- Feyond () gle Point and Richardeon Point and old woman wa- form who proved an intoreatine witne-: : he had been one of a party who had met -ome of the
 dweribend areing ten white mend dragging a foder with a boat
 in their company athent five days. The native hand killed -rhur - -ah whinh they -hared with the white men. In return, Whe whe wemen' - hathand had been given an knife and of hew antion- mow lo-t. The white men koked sers thins and theis month-were dry and hard and hadk. The native meseal
 remama! lathent. Tha following aprime the old woman hat -ran at that -tanding on the -hore at the head of Tomron Bay.

In it were dead bodies, and outside were others covered with sand. 'There was no flesh on them, - nothing but bones and clothes. About the tent were lnives, forks, spoons, watehes, and many books, besites clothing and ot her personal articles. Liententant schwatka visited the cairn erected by ('aptain IIall over the bones of two of Franklin's men, near the Pfeffer Riser; a fow relics were gathered up in the vicinity of Aclelaide Peninsula, one a bunk fixture with the initials "L. F." in brass tacks upon it.
( 'ape IIersehel, on King Wihliam Iskand, was reached in June. Lieutenant schwatka made a thorough examination of the Western shore of the island as far as Cape Felin. At Caper Jate Franklin, ('aptain Crozier's camp was found, where the entire company of the two abandoned ships had remained some time : strem about were many relies of the party and the grave of Lieutenant Irving. (iilt buttons were found among the rotting cloth and mould at the bottom of the grave, and upon one of the stones at the foot of the grave was found a silfor nedal, two and a half inches in thameter, with a basrelief portrait of George IV surrounted by the words -

> Cicorgius ILII, D. Ci. Brittamiarum Rex, 1820
and on the reverse a haurel wreath surrounded by

> Secont Mathematical Prize, Royal Naval College
and inclosing
Awarled to , John lrving,

$$
\text { Tidsummer. } 1830
$$

The remains of lindenant Irving were brought home for 'mial in Edinhurw?

The record deposited hy MC lintock on the 3d of Jine,
 in which it hamberen deporitex had becen deatroyed by nativer.

Tha return from King Willian Land was startel septemher 19. It will he remembered that for monthe the party ham -nhbisted entiredy on game founcl in the locality, that their original supply of provisions hat lasted a little nome than thinty dare and that the return was in the face of the fart apporaching winter. Fortunately, reindecr were oxem duily in immernse herds.

- Wh e cut quantitice of reindecer tallow with our meseat." remark- ( ibldrr", "probnably ahonat half our daily food. Isreakfat is catom raw ath frozen, but we gencraily hate a warm nevel in the eveming. Fucl i- hard to obtain, and consint ratirely of a rine-like mose called ik-shoot-ik. Timmerer tadlow is alor; wed for a light. A small flat stone erres for (andle-stick. on which a lump) of tathon is placed. clone to a pieco of filmon- mose called mun-ne, which is used for a wick. The talkow helting runs down upon the -tone and i- immedi-
 blazaht lioht. But io most exatperating to a hungry man,

 the effere of it in the coment with wherh we mext there cohn.."



- Whe found the tratellinge on Batrk - River mach more tw-






scarcity of game in the vicinity. The Innuit hunters having repertexl the land sledging in good condition toward the southeast, - incleed, much better than upon the river, - and indications pointing to an abundance of game in that direction, the party immediately struck out for Depot Istanch.

The extreme cold experienced at this period of the joumey Was trying beyond expression, and had a serious effect upon man and beast. Even iron and wood were affected, strong oak and hiekory breaking to the touch like icicles. It was a matter of great difficulty to keep the guns in working order, and the wary gane would hear the sound of the crunching of the hunters' tread on the snow at long distances.
"I have frequently heard," remarks Ciidder, "the crunching of the sled runners on the brittle snow - a ringing sound like striking bars of steel - a distance of over two miles."

The mean temperature for December was - $50.4^{\circ}$ Fahrenheit, the lowest $-69^{\circ}$; on January 3 the thermometer fell to the lowest point experienced by Lieutenant schwatka's party, amb stood at $-70^{\circ}$ in the morning and $-91^{\circ}$ at five o'dock in the afternoon. The party had long been without the fatty food so essential to retain bodily warmth in these fearful temperatures, and the dogs, although fed upon frozel reindeer meat, which, however, has but little nourislment in it in that state for cold weather, began to sicken and die. The small amount of blubber now remaining only serverl for lighting the igloos at night, and a cooked meal could omly be indulged in on days when the party remained in (amp and could gat her moss for fuel. To add to the general misery muler which the return journes was continued, wolves were freequently met with, so ravenous and bold that they attacked the dog- for the purpose of eating the meat thrown out to them. ()n anothere orecasion :-
"Toobooah was out hunting on the 23 d of February, " writes (iilder", "when a pack of ahout twenty wolves at-
tacked him. He jumperl upon a big rock, which was soon *urromeled. and there he fought the sarage beanto off with the butt of his grun until he got a sure shost, when he killed one, and while the others fought wrer and tevoured the carcar-, he marke the best of the opportunity to get back into eamp). It wat a most fortunate escape, at he fully realized."

Two day later, the sume hunter, white ioblowing a reindeer: not far from camp, was surprisod to meet another Innuit, whom he foond to be and arguaintance: from this man hee leamed that Depot Fidand wa- ahout three days journey off. Returning to (amp) with this happy intelligener, it was decerted to purh on and highten the shedere at the degoo of this native the following day and then by foreed marches reach Depot I-kand as sext a- po--ible.

The proferect of finding shipe in the harbour, with news from home and frionds. did murh to reviof the hope and
 destination, friendly natioes were aneomentent. their joy and emotion knew no bomals. But thongh their reweption anmong the Immits had hem warm and hearty, their fore was
 bay was at Madde F-kand. and that (aptain Barry of the Esther hat latiod to deposit at Doarot I-hand at thourand



 hoppitatity of thr natiores. and in lose thatn a werk famine

 day : forp thrir artival. In the meantime. Limperatht



they eovered seventy-five mikes. The desperate situation in the settlement at Depot Island is deseribed by (iikder as fullows:-
"People spoke to each other in whispers, and everything Wat quiet, save the never-ceasing and piteous eries of the humgry children begging for food which their parents could not give them. Nost of the time I stayed in bed, trying to keep warm and to aroid exerede that would only make me all the more hungry."

Four days hater, the hunters were successfuk in killing a Watrus and this timely relief enabled the members of schwatkal's party to continue their journey to Darble Iskend. On the first day out, they met a native with relief for the camp. On saturlay, March 21, 18s0, the ship) (ieorge and Mury was reathed, where a warm welcome awaited them from Captain Baker. When freed from the iee in the spring, this ship earreal the explorers back to divilization.

It will be remembered that, during the entire journest, the refianer for food for man and heast was solety upen the resourese of the country, that the white men heded exelusively upon the same fare as the leskimos and that the return stoder journey was acomplished during an Aretic winter akkowlodged to be of exeptional soverity by the natives. To Liententant schwatka's exeellent management, and thorwioh fitnes for his position as commander, wat due the surcose of the expedition.

- All our movernents were conducted in the dull, methodi(al. hu-ince-fike manner of an army on the march," writes
 whlw for heforehand, so that peramal adventures were atthes maknown or too trivial to mention."

Therembes of this remarkathe fonmere are summed uy

" Lientenant schwatka has now di-sobed the lasi douhts
that eonlel have been felt about the fate of the Franklin (xperlition. He has traced the one untraced ship to itwratr herond the orean, and deared the reputation of a hatmber people from an muleserved reproach. He hats given to the mburied hones of the erews probably the only safegharl against chereration by wandering wild beat- ethrl hewhlow E-kimos, which that frozen land allowed. He hat-bousht home for reverent -epulture, in a kindier soil. the one honly which bore transport. Oree the rest he haz-- - ot (u) montment = to emplatize the undring memory of their -uffering- and their wploita. He ha-gathered tukens hy whech frimble and relatives may identify their dead, and rewit in imacination the -pots in which the a-hes lie. Latly: low hatarriod home with him material evidence to complete the annals of Aretic exploration.



## CHAPTER XVIII

The Jeannette expedition, 1879-1881. - In command of Captain George W. De long. - Leaves san Francisco, touches at Ounalaska, August 2. reaches Lawrence Bay, East Siberia, August 15. - Last seen by whake bark seel Breeze near Herakd Island, september 2. - The Jeanmette beset in ice-pack, september 5 , never again released. - Daily routme of officers and crew. - ship springs a leak. - A frozen summer. - Sight of new land. - A sceond winter in the pack. - The Jeannette crusherl. - Abandomment. - The retreat. - The fate of the three boats. - Death of De Long's party. - Mekville's search.

The American Aretic expedition of 1879, commanded by Licutenant (ieorge W. De Long of the Enited States Nays, was equipped and financed by Mr. James Gordon Bennett, proprictor of the New York Herald. The object of the expedition was to reach the North Pole by way of Behring Strait.

The hak-rigged steam yacht of four hundred twenty tons, P'andorn, which had already seen considerable service in Aretic water, was purchased from sil Allen Foung. By special act of Congress she was allowed to sail under American colours, be nasigated by officers of the United States Navy. and to change her name from Pendore to Jeamette. The Jectmette was reenforeed and refitted for the arduous serviee expeeded of her, and her officers and erew, thirtr-three in number, carefultw seleeted for their especial fitnes for the undertaking.

Anong the number, Lieutenant De Long and Lieutenant Chipp, the execotive uffieer, had seem Aretie service while
attarhem to the L....-teamer Jummitu, wheh had been sent by the govermment in sareh of the Poloris in 1s-ỉ; Engineer Xelville hath hoen attached to the Tigoses, while that ship hat been on the same errand, athe reaman Wim. F'. ('. Nindenanm had satiled on the Poturise and heen a membere of the ire-dritt parts.

Lieutomat John W. Danmhower, C.A. Ň. was appointed navigator: I)r. J. M. Ambler. surgeom: Jerome J. (ollims,
 Willian M. Duntar, iee pilot.
 toward the (iolden (iate annid the cheress and waving of handkepehiefe imon thousamb of -peretators on the wharese and on Telegraph Hill. A -ahate of tern guns was fired from Fort Point, while a conmoy of white-sailed eraft of the san Francieco

 tian I-lands, whieh -herearhed Augh-t 2. There exdditional - tore were takern abodat. and fone dare later the pur-wed her

 Ala-kuns. Amepuin and Alexai. Were himed to aronmpany the













Jeeminette's smoke-stack in range of Herald Island. She was standing north. These were the last tidings heard of the expedition hy the outside world for over two years.

On the sth of september, the Jeannett, having holdy enterea the ice in an attempt to push through and winter at Herakl Lstand or Wrangell Land, was beset and never again left the ief-pack, hut drifted at the merey of this formidable foe, until she was crusherl, and finally sank many months afterward.

Hoping against hope that a release would come, first in the fall with the promice of Indian summer, then in the spring with the breaking up of the ice-pack, ('aptain De Long saw the worek- and months glide by, and followed the complicated drift of the Jermnette, as she coquetted with her jailer, turning and twisting in her course, suffering the constant pressure of her encmy, that hourly threatened her destruction and pursuing an uneren drift north and eastrard.

The daily routine during the long imprisomment was practically as follows:-

| 6 A.m. | Call cxecutive officer. |
| :---: | :---: |
| 7 ¢. IT. | Call ship's rook. |
| 8:30 A.m. | Call all hands. |
| 9 А.лı. | Breakfast by watches. |
| 10 A.m. | Turn to, dear fire-hole of ice, fill harrels with snow, clean up decki. |
| 11 . $1 . \mathrm{mr}$ | Clear forecastle. All hands take exereise on the ice. |
| 11:30 А..ı. | Insperction hy executive officer. |
| 12 m . | (iot rounding-*. |
| 1 1.... | One wateh may go ludows. |
| 2 P.m. | Fill barels with snow: ( lear fire-hole of ice. |
| 3 P.M. | Dimmer hey watehes. |
| 4 P.M. | Galley fires out. ('arpenter and boatwain report departments to executive officer. |

## 7:30 p.an. supper loy watches.

10 p.an. Pipe down. Nose and smoking to cease in forecastle, and all lights to be put out, exeept one burner of bulkhead lantern. Alan on watch report to the executive.
During the night the anchor watch will examine the fires and liyhts every half hour, and see that there is no danger from fire. All buekets will be kept on the starloard side of the quarter-deck, ready for use in case of fire.

This programme was raried only as contingencies arose ; hy threateming disaster from ice pressure ; by the chase of hears: the ceapture of walrus and ocals: or ley hunting parties who travelled over the ice in searell of game, or took a daily run with the dog.
"Wintering in the pack," comments De Long, "may be a thrilling thing to read about alongside a warm fire in a comfortalle home, that the actual thing is sufficient to make any man prenaturely ohd.
()n Jamary 19, 1sso), owing to strinus comvolsions of the ice, the Jomumetle sprume a leak. The deek pumpes were at onee rigered and mamend, and stean raised on the pert beiler to rim the stean mumps. This bat cansed great diflionly and delay, owing to the temperature in the fire-wom being
 makete of water threngh the man-luld plates. bafore the pumps could he operated. Therogh Melville's indmatable
 hambe wonkel until milnight. the surions situation wate muly




of the foremast, which partially confined the water. In the meantime, Maclville, working night and day, rigged an economi(al pump with the Baxter boiker, with which the ship was pumped for nearly eighteen months.

Lientenant. Danenhower, who had been suffering for some time with his eyes, had become totally incapacitated for service, and on the 22d of January submitted to an operation performed by Dr. Ambler. Two days later, De Long comments on the gravity of his own responsibilities:-
" Dy anxicties are begimning to crowd on me. A disabled and keaking ship, a seriously sick officer, and an uneasy and terrible pack, with constantly diminishing coal pile, and at a distance of 200 miles to the nearest Siberian settlenent these are enough to think of for a lifetime."

The drift of the Jeannette for the first five months had covered an immense area; she had approached and receded from the one hundred eightieth meridian, drifting back to within fifty miles from where she had entered the pack. By the 3 l of Nay, however, fresh southeast winds hegan, and the ship took up a rapid and uniform drift to the northwest. Hope for release, which had been buoyant in May, was deferred until Jume, and when that month glided by with no signs of liberation, it passed to July and gradually faded with the brief passage of a frozen summer. The Jeernotte, again uncertain in her drift, added to the general disappointment of the commander. The ring of despair and realization of failure are voiced in an entry August 12 : -
"Observations to-daty show a drift since the 9th of five and a half miles to S. $38^{\circ} \mathrm{E}$. The irony of fate! How long, () Lord. how long?"
 prisomment stood on an even keel; but four days later, one Sear from the time she flang her fortumes to the enemy, she was atain heled fast in its frozen grip. During the month she

Wat put in wintre quarters for the seeond time. The approach of the long night with it e adderl anviefies brought hitile change to the members of the experlition. The question of furd wat the most serious prot)lent, and the amount weed was figured to the most exonomical hasis. Weary days chageral atong without novelty or change. ".so far at I know, " Writes de long in damary, lshl, "nerer hat an Aretice expe-
 before hate alwats dififted somexthere to some land, hat we are drifting about like morern Flying Dutchmen, never getting anywhere, but ahwas restles and on the move ('oaks are hurming up, food heing ronsumed, the pumps are still going, and thirty-here peopld ate weating out their hearts anol sonls like men doemed to impricomment for life. If this noxt summer comes and gene like the last without any rexult, what reasonable mind san be patient in contemplat tion of the future?"

Foner lomg weary monthe were to elapse before a belted (ame to bereak the monotonons sithation. On May 16 , last,















attendant lowding and unlowding, arm-hewking hauls, and panic-stricken dogs made their journey a terribly severe one. Near the inland the ice was all adive, and Aldville left his boat and supplise, and, carrying only a day's provisions and his instruments, at the risk of his life went through the terrible mass, actually dragging the doge, which from fear refused to follow their human leaders. If this persistence in landing upon this island, in spite of the superlaman difficuhties he encount(recel, is not reckoned a brave and meritorious action, it will not be irom any failure on my part to make it known.

The approach of spring had revealed to Dr. Ambler a pale and stricken crew. Danenhower had long been a sufferer: Licutenant (Chipp was ill; Mr. Collins was recuperating dowly from atereere illnes-; Alexiat the Alakian, was suffering from ulcers, and others of the erew showed incipient signs of scurry.
() the 12 th of June, 18 sh , while in $77^{\circ}$ 1.5' north latitude, and 150.5 (ant longitude, the Jemmetle experienced a final presure from the ice, from which she sumk within a fow hours. Arsoon ats it wats realized that her fate wats eneated, orders were trilend that all provisions, hoats. cte.. -hould be tran-perted to a sate di-taner upen the ice ; this wat done without comflawon or exemament. "When the order was given to athandon the whip." weites one of the officers, "her hold wat full of water,
 at the fine the wate wate on the lower side of the opar deed."
 the moming of the 13 th , ": m in the rathling and hanging of
 uperight, the flow that had ceme in and erushoed her stowly hatkerl off, and wion enk with slighty arcelcrated velocity: the sard arme were stripoed and howen upstard paralled to
 hamb above it - hemb. Ahe phanem out of -ight. These of us who saw her go down," adds Chief Engineer Melville,
"did so with mingled feelings of sadness and reliof. We were now utterly isodated, beyond any rational hope of aid; with our proper means of escape, to which so many pleasant associations attached, destroyed before our eyes; and hence it was now wonder we felt lonely, and in a sense that few can appreciate. But we were satisfied, since we knew full well that the ship's usefuness had long ago passed away, and we could now start at once, the sooner the better, on our long matrch to the south."

The following week was spent in preparations for the retreat; the route was laid due south, it being the intention of ('aptain De Long to make for the Lena River, after a brief stop at the New siberian Island. The day's march was accomplished under the most trying cireumstanes, the lateness of the seation and the ruggedness of the ice necersitating roadmaking, bridging, and rafting, or dragging the loads through shosh and water that lay knee-deep in the path. The footgear of the men became practically useless as a result of constant wettings, and every device was resorted to to keep the hare feed from eontact with the iere. "I large number," writes Mewsille, "marched with their toes protruding through theif moereasins: some with the 'uppers' full of holes, out of which the water and slush spurted at every step). Yet no one murmured on long ats his feet were clear of iee and I have hore to saty that mo ship's eompany orerendured sumbserve twil with such little complaint. Inother crew, perhap), maty be fomed to do : we well ; but better, never!"

Nome haded sterges and five boats carrying sixty days furerions. had to be hauled arress the mering flow in the armerse of the day. The road had to be trabedted ne lese than thirimen times, seron times with kowl and six times monty
 of two. The side, with the hempital stomes and tente, were unWer the eate of Dr. Ambler. Thus the mareh ore the frozen

orean wits continued for sereral weeks when, to the consternation and dismay of Captain De Lomg, he found upon taking (o) ecervations, that by the northerly drift of the pack they were lowing ground daily and had drifted some twenty-four mike to the northwest. This disheartening intelligence was kept from the men, with the exeeption of Melville and Dr. Ambler. (hanging their course to south-routhwest, the party whtinued their slow and wearisome progress until the 1lth or 12th of July, when the mountainous peaks of an istand gladdened the eyes of the shipwrecked crew. Inspired to remeworl effort, the men pushed on, finally landed, and (iaptain De Long took possession in the name of Ciod and the Chitod ftates, naming this new territory Bennett Iskand. Nine days were spent on this island, during which the boats were reprairol. A cairn wat huilt and a record left. The final departure from Bennett Iskand took place August 6 . In the metntime. the brief summer had gone: alrearly soung ion wat forming, and the stream: and rivulets that had gladdemed the mens cye upon their arrival had disappeared as the end 1 grasp of winter prepared to hold them fast.

It had hem draded bey Citptain De Long to divide the party into theresertion- and to proceed by boats: to this end Lirutontant (hipp) wie asoioned to the second cutter in command of nime mon: Chief Enginerer Xelvitle to the whale-hoat in (o)mmand of nite men, De Long reserving the command of the fir- atter and tweeter mem. Instruction- to Chipp and Molrible dimeeted that thes shoukl keep elose to the eaptain": hemat. hat if through aceeilent ther fould hecome separated. to make their way south to the coast of siberia and follow it to the Lemal River, then ascend the Lena to a Russian retthment.

For ule next efolenen dare the eetreat was made he work-


as much as tern miles wis made a day to the southwest. Vexatious delats were camed by the fast approaching winter, and, upen reatheng Thadeouiski, one of the New Siberian Istants, the pinch of dminishing rations began sorely to be felt. (iame, which had been oceasionally seeured during the early part of the retereat, had heen searee of late, and the outlook hemath to take on the quay aspert of a deaperate future.

From now on, the retreat was one long, derperate struggle against famine and gales and piereing eold. Describing the experiences of september $\overline{7}$, Melville writes:-
"standing to the southward, we shortly eame up with a harge Hoe ative with small rumning hummocks and stream iee. It wats howing stiflly, the sea was humpy, and our boats cat reering at a lively rate. D'umping and bailing to kedp aftoat, we suddenly $\begin{gathered}\text { amme untarares upon the weather side of a great. }\end{gathered}$ floe piece, over which the seat was breaking so torribly that for us to come in contart with it meant cortain destruction. It Wats floating from four to six foct abowe water, its sides cither perpendientar or materchot hy the ation of the wases, which dashorl madly ofer it, the surf flying in the air to a heright of twonty feet: athd, where the sea had homereombed it and (atem holes moward thromgh ite thieknes. a thonsand waterspouts eat forth prosy like a school of whates. Romand about, down sal, and allat wo pulled for our lives. De longe being fifty of a handred fards in adrance of me and wo muth nearer damore, hailed me to take him in tow, which I dil, and to-








their hare hands frozen and bleeding ; and the boats tossed capricionsly ahout with the wihd wates and the unequal strain of the tow-tine. Drenehed to the skin by the erued icy seas which perured in and nigh filled the boats, the overfaxed men, as they faced the dreadful, death-dealing sea and murderons: ice-edge, found new life and strength and performed wonders.
"Our boats were well bunched together, and although it was now piteh dark, we coukt yet for a white discern each other lomming up out of the black water like pectres, and plunging orer the erests of the waves. Presently the second cutter fetherl awas, but as mine was the fastest boat of the threes, I experienced no difficulty in following De Long. Intecel, in my anxiety to ohey the order • Kerp within hail, I at times barely escaped rumning the first cutter down. . . ."
"Toward mithight," continues Melville, "we approacheel the weather edge of the park, the roar of the surf reaching our eatro long lefore we coukl see the ice. I involuntarily hauled the whalr-hoat closer on the wind, and by so doing lost sight of the firet eutere, but the termible notise and confusion of the - ${ }^{-2}$ wamed mo herond doult of the death that lay meder our lee. Presently out of the darknese there apperared the horrid white wall of iee and foam. Not a second too soon. 'Rearly athent, and out with the two lee oars if she misses stats., This, of eromes, from the heary sea, she did; and ruirk as thoteht my ordera were obered. Aswe turned towly rombl.
 fo the seats. If (Gols ! what a eold hath! And now we were in the midst of small streaminge iere broken and triturated into po-h hey the sesa and grinding floce, ant this was harled
 reat of the park. which was rapille moring hafore the wind.


the other tack, the waves still leaping playfully in as though to kerp us busy and spiee our misery with the zest of danger.
"Whem day hoke, noither of our companion hoats was in sight. 'The wind had moderated greatly, and we were now in quiet water among the loose park, perhaps the most miserable looking collection of montals that erer crowded shivering together in a heap). We looked, indered, so utterly forlorn and wretehed that just to revise and thaw, as it wore, my drowned and frozen wits, I burst forth into fremzed song. Ol a truth, as we sat shaking there, our situation was nigh desperate ; we were down to an allowance of a pint of water to cach man per day, now that De long was separated from U*; but upen the sugeretion of some one in the boat, I set up the fire-pot and made hot tea. Wo were thus breakfasting when the first cutter hore in view: I at onere joined combpany, and shortly after the second coutere made her appearance and we were again together. The sea soon calmed, Ios miserables. thatwed out, the moming bereame as pleatant as the memorable May momings at home, and we again were hright and alive with hope."

The following day, september 12, after a night's encampment upon a floe, the parter landed in semmooski, and the
 vided them for the firs time in many menthe a full and eteli-
 to be omly minety miles distant, amd, after at day's rest amd
 batked once more full of hope and comrage that ('ape Barkin might lor reatehed after one more night at *ata.

The there hoats eped fomatrel 10 tha sonthwas in at rising
 formidithle :mal threatening. Io Lomg amt (hijp) were (x-


keep within hath，was all hut swamped by the fury of the waves as they broke over the whate－hoat．

In an entearour to antwor signals fron De Long，Melville shouted down the wind that he must run or swamp）－De Long wased batk，motioning him omward．Dehville hoisted sail， shook out one reof，and the whale－hoat shot forward like an arrow．De long then signalled（hipp ；for an mstant the serond cutter was seen in the dim twilight to rise on the crest of a wave，then sink out of sight；onee more she appeared；a trememhens sat hroke over her；a man was seen striving to free the sail：she sank again from view，and，though seas rose and foll．one after another，the serond cutter with all on board Was nerol seen again．

The whate－hoat plunged on at a spanking rate and was soon out of sight of De Long．The question now was whether she woukd outlive the gate－and to insure greater safety Molvithe ordered a drag anchor to be made of tent poles weighed with such arailahle materiab as came to hand．

Whet a night，hing anchored at the meres of the gale， bailing out with pumps．buekets，and pans the heary seas as the hroke over the hoat：hungry and thirsty mem，soaked to the skin with repeated icereokl hathes，half frozen from exposime to the icy hasts．A lithe whiskey was all they had during that fearful night，and in the morning a quarter of a ponme of permmican served as hreakfast to the wret ehed erew． The wate still raged ahout them with mabated firs．But hy atermon it had ahaterl sufficiently for them to get under
 roung ire，ant in shoth waters．which ther avoded by stering to the catward all day．Short rations of a quarter of a pound of penmmen three times a dar，without water，was all the had，and another miscral to night settert upon the teilers． at they lated the water－loged whate－loat．the water turn－ ing（os slush the minute it was in the hoat．

The men were new undergoing arere sufterings from thirst. The follewing daty the were fortunate in reaching one mouth of the lema River, and, procerding up, this strem, they disconlarked for the first time, after tive days of misery. Takmes shedter in a deserted hut, lately racuted be natives, ther thatwed their arhing bodie- around a cheering (amp) fire, mowed a peot of tea, and ate of a stew made of a few hirto she t at remenov-ki latam. But their woollen limbe hlisterent and cracked houch, gave them exeruciating pain, and another Fiocplew night added to their misery. Two more twitome days were -pont pulling un, the river and eneamping at night under a codd and fheremon ay.
 goend fortume to fall in with natives, who treated the forlom mell whith great kimelne- and semerseity. and on the 2Gth of fighember hey readed the Rusian viltage of (iemoriahome. where they subsi-ted unt they were able 10 communicate with the cemmendent at Belun.
lepen the erparation of the heat- already dexeribed. De Lene experiment the same thereatened destrue then of the firet














then the ground rovered was inconsiderable, so that on Sepstember 21, upon reaching some deserted huts, De Long records:-
" Aconding to my accounts we are now thirty-seren miles atray from the next station! and cighty-seren from a probable settlement. We have two days rations after to-morrow mominge breakfast, and we have three lame men who eannot make more than five or six miles a day ; of course. I (ammot leare theme and they certainly (annot kerp up with the paee neeresary to take.

The hunters were fortunate in secouring oceasional deer, hut the unfortunate comelition of Erickson, whose frozern feret neressitated the amputation of his toes, retarded their prowrese and ()etohere came in cold and bluatery to find the mis(ruble party still far away from human aid. For nine days more they struggled along the harren shores of the Lemat geme failed, and their food was exhansted. Erickson died and was buried in the river. Nindemann and Noros started on a foreed mareh for assistance from the nearest settlement at Kin Mark surka : they carried their bankets. one rifte. forty rounds of ammunition, and two ounces of alcohol-- but 1:0) foorel:

On Oetoher 10. Da Long makes the following entry: -
*()ne homded and twentioth day. Last half somere aterobol
 derekin seraps. Yeverkay moming ate my derekin foot-




 hatel entas. Ler howeme to be keft. Some littho hearh, atml


up) : (rawled into a hole in the bank, colleeted woork, and built fire . Dlexey atray in quast of game Nothing for supper
 but chereful - (iod help) us.."

There days later there is an entry, "Wreare in the hands of (rod, and unles. IIe intervence we are lost."
 and the nest day he ciferl. On the 21-t Fiatek was found dead betweren the eaptain and I re. Ambler, and ahout noon Lee died, and on ()etob)er 22 D) Long writes:
"()ne humbed and thirty-ocoont daty. Too weak to carry the bodies of Lee and Kiatek out on the ier. The doever, Collinss and I carried them around the comer out of sight; then uy eye clozed up.
()n Monday: Oetoher 2t, there is the -imple entry: " ()ne hombed and thirty-fourth day: A hatd night." And three day* - later, "Irersen broken down." and the nest day, "Irer*ren died during "arly morning." (on ()ctother 29), "One humdrend and thintr-minth day, Dres-lar dien during night."

 (riort\% died dume niglat. . Ir. ('ollin-drine.

The foreed mareh of Nimbememm atml Nores is one of the











tea and boot-sole. Crossing a couple of streams they sought shelter from a raging gale in a wretehed hut where a refuse pile of deer bones were burned and eaten. Near another lut was found a little rotten fish - this erked out with strips cut from seal-skin clothing was all that stayed the pangs of hunger as they marched on. The 16 th of ()etober found their strength fast waning. Noros was complaining of illness and spitting blood. Two days later they reachorl a place set down on later maps as Bulcour ; it consisted of three deserted huts.
"Near by was a half kayak with something in it. Noros tasted it. It was blue moukled and tastelesis to them, but it wats fish, and they took it with them to the other huts. They found nothing more, and after gat hering some drift-wood they made a fire amel tried to find some food in the mouldy fish."
()n Friday, ()etober 21, they were too weak to push on, but spent the day in careful husbanding of their resourees. Measuring their firh, they foumd that hy taking each two tin cupfuls a dety they had enough for ten days. scoming up the fish in their foot-nips and skull caps, they arranged straps to these bundles for carrying.

The next day, whike still too weak to proeered, they heard a noise outside the hut, like a forek of gerese swereping by, and Nindemann, seizing his gum looked through the erack of the foor. seeing something moving which he thought were reindere, Nindemann adranced. when the (foor suddenly opened and a man stood on the threstohk. Sereing the rifte, the man fell upon his kners, hat when Ninkenamm reasuned him by throwing the weapon to one side, fricmbly commoni(ation was established botween the stratere and the forlom mene. Frmpathizing with their deejerate plight. he lot them know hy signs that he would retmm in there or fone hours or Wers, they coukd not toll which.

What six obdock the sume arminge the stranger, aterompaniod by two other natives. rotmmed, hanging with them a
 manm and Nom-wore devonmen the first real food that the? lath hand for manty ather the mem homeht in derer-skin enots
 deose ati with theon akone the river to the wertwarl for a
 Were leceated in two tent-. These tatented the sathore with

















 duad!








of twelve humdred miles, and to rommunicate with the Rus-


Mavilla wat by no means recovered from his long exposure, and his frozon limbs cansod him great suffering, but neverthedes. how went hatk over the track of Nindemam and Noros -tep hy step). (In Nowmber 10, the native who had aceonpanied him amomeed they must return as the provisions Were exhastest, but Mehvilke rommanded them to go on, deedaring they would eat log as long as the twonty-two lasted, and when these wave out he shoukd eat them. Fuch determination won the day, and they proceeded to the settlement of North Belun. Ifere anative brought him one of De Long's recorels. keft on the mareh. From these natives he learned in which direction the records had been found, and pressing on, in spite of his frozen feet, which were in such a condition he could an konger wear his moceasins, he reached, November 13, the hut where De Long's first reeord hat been left, a distance from North Belun of thirtr-three miles. Coukl De Long's what hut hare shown the native settlement of North Behun, the whole party would douht les have been saved.
()n November 18 following the northerst lank of the river her eames to the shores of the Aretie ()eean and found the thas-atif where artieles from the first cutter hat been eacherl. loading his seded with all the artickere found there, including logbokl, whomomoter and navigation box. he returned to Nortly Bahni. With fresh dog teems he set out agenin November 17, in an madeavonir to find the hut where Erickson died. Fieree stomas and lack of food foreed Mehville to take refuge in a
 dect).
"The stom embtinued to hlow," writes Molville. "the whole of thet night, the mext day and the next night. It was imporible for mose antil the next daty morning, when it (leared mp : little. but in the mean time, we had nothing 10
(at. It wat too -tomme to make a fire to make trat, and the senixen fente whirle the native had dher out were full of
 it whole, which marle me ou -iek after it warmed up in my -tomach that I romited it all out aquin."
\obrille rearhed Ku \ark funk Notember 21, and at
 in which le travolled man low than handred and sixt y -three miles orro the tumatra of Northern siboria in the fate of an

 letancel Nimlemann and Sartlett to a-rist him in the epring - *areh. athl in-tumenl Dancmhower to proceed with the other nint meds to Ifkut-k. di-tant over nineteen hundred miles, from thenere (o) America.

The - fring - arde we made under the following instructime from the Naby I (quatment at Wastangton:-



 will -uphly neres-aty fomls.













Captain De Long had erosised the river to the westward. A search was now made for the hut where Erickson havl died.

Snow covered the country and effectively obliterated all trace of previous travellers. Storms foreed their return to Kas Kiarta, and a fresh start was made. The party divided to insure a more thorough searech.
"We followed the bay," says MIr. Metville in his narrative, "until late in the evening, having visited all the headlands; finally we came up to the large river with the broken ice. I jumped upon the headland or point of land making down in the bay and found where an immense fire had been made. The fire bed was probably six feet in diameter, large driftlogs hove into it, and a large fire made, such as a signal fire. 1 then hailed Nindemann aut the natives, seying 'Here they are!' They thought that I had foumd the place where the De Long party had been. Nindemann came upon the point of land, and said that neither he nor Norow had made a fire of that kind, only a small fire in the eleft of a bank: but he was sure that this was the point of land they hal turned going to the westrarel, and that this was the river akong which he and Noros had eome. . . ."
"It is the custom of the people here," contimes Melville, "in making a search to go facing the river and when they see anything to attract them, drop of? the shed and exanine it, or pick it up and go on. In this mamer, about five hundred yarts from the point where the fire had been, I saw the points of four sticks standing up out of the snow about rightem inches, and lasted together with a piece of roper. Seeing this, I thoppend off the sled, and groing up) to the plate on the shew lank, I found a Remington rifle stung across the points of the stick: amo the muzale about eight inches out of the show.
 with the sled, and I sent him to Nimdematn to tell him to come hack, he having gone as far up the river as the flat hoat

Whent ther retumated I -iatied the native to diening ont ther





 got mom ther hank, and towk : look at the river. Nombmand
























suw that if they died on the river bed, where the water runs, the epring freshets would carry them off to sea.
"I gathered up all the smatl artiches hying around in the viemite of the dead. I found the iee journal about three or four feat in the rear of De Long ; that is, it looked as though he hedlieen lying down, and with his keft hand tosed the book orre hi- -houlder to the rear, or to the eastrard of him."
"Referring to the journal," continues Melville, "I found that the whole of the people were now in the kee of the bank, in a distence of about five hundred yards. In the meantime, the mative that had gone for Nindemann had brought him bark."
"The three bodies were all frozen fast to the snow, so fast that it was necesary to pry them loose with a stick of timber. In tuming over Dr. Ambler, I was surprised to find De Long's pictol in his right hand, and then, observing the blood-atained month, heark, and snow, I at first thought that he had put a violenit and to his misery. I careful examination, howerer, of the month and head reveated no wound, and, releasing the pistol from its tonacious death-grasp, I saw that only three of its chanborse entabed eatridges, which were all locted, and then knows of comese, that he could not hate harmed himself, che one or more of the eapeates wouk the empty. . . . I betiere him whate heen the last of the unfortumate party to peri-h. Whent Sh sam hat been stretehed out and his hands crossed
 Theng, whitary and fami-hing, in that deoskate -ooser of death, 1)r. Ambler vemme to hate taken the piatol from the corpse of 1) I.ond. doubtlew in the hope that -ome bied or beast might (athe to pure upen the hodiew and afford him food, - perhap) ahage to protect his dead eommades from molsetation, - in where ease of hoth, there he kept hi- lone watech to the last.


It now remained but to find the other bodies and bury the
dead. In due time this was accomplisherd. Melville writes of the equot choren ats follows:-
"The h hrial ground is on a bold promontory with a perpensheular face oratooking the frozen potar sea. The rocky heat of the mountain, cold, athetere at the sphinx, frowns upen the epot where the party perished ; and consedering its weather-heaten and time-worn a-peret, it in attogether fitting that here they should rest. I attamed the crest of the prom(antory he making a detour of soveral miles to the couthward of it - majestic front, and then toiling slowly to the top. Here I haid out hy eompras: a dur 1 orth and south lines, and one due (ant and west, and where they intereereted, I planted the cross Which mark the ionnh of my eomrades."
"There in sight of the epent where they fell, the seene of their suffering and heroic conkeaver, where the exorlasting shows woutd be the ir winding sheet and the fieree polar blaste which
 dimes though all times, there we haried them, and surely


Lieutentht Hather was ako in the firld, as was Mr. Jaterom,
 Wa* mate of the Delta for ('hipp)'s party, without asail.










## CHAPTER NIX

International circumpolar stations. - Failure of Dutch expedition. - (irecty expedition reaches Lady Franklin Bay. - Life at Fort Conger. - sledge journey of Brainard and Lockwood. - Farthest north. - (ireely's journey to interior of Grimell Land. - Lake Hazen. - Faiture of relief ship Neptune to reach Conger in 1882. - Oificial plans for Cireely's retref in 18s3. - Proteus erushed in ice. - (iarlington's retreat. - Greely's abandomment of Fort Comere -- Cirecly rouches C'ape sabine. - The begimning of a harel winter. - Death of member's of the party from starvation and coll. .- schley's brilliant reseue of the remmant of the Lady Franklin Bay expedition in 1854.

The plan for cstablishing International Circumpolar Station: within or near the Aretic Circle, for the purpose of recording a complete series of synchronous meteorological and magnetie observations. was outlined in a well-thought-out paper delivered hy Lieutenant Kiarl Weyprecht, A. H. Navy, before the German serientifie and Medical Association of Giratz in september, 1855 , soon after the return from his remarkalle journey in the Tegethof.

Though Lisutenant Weyprecht diel not live to see his splendid scheme carried into efferet. the cooperation of Prince Bismatek and the heartw indorement of the plan by a com-mis-ion of eminent soicntists. as woll as the derision of the International Mateorological ('ongress, which reported "that the-r wheserations will be of the highest importance in developing metenology and in extending our knowledge of terrestrial matnetion," realted in the International Polar Conferencer, at Hamburg, Octolese 1, 1879, in which elecen nations wore repreerented, and a zocond conforence at Berne, Augnst $\overline{7}$. 1ムンO. at which it Was derebled that cath nation should estab-
lis? one or more stations where symehronous observations -hould be takon! from dugunt, にい2.

With the execention of the buteh expedition, the relame Wat- -uceronduly carried out and the stations e-tabli-hed without ancident.

Norwegians- Bosekof, Allen Fjord. Norway, under direction

S'werde - Ite Fjord, shitzhorgen, under direction of Xr. Ekholm.
Ru*-ians- Fagastyr l-knd, mouth of Lena, Siberia, mater Liventernant juirgents. Moiller Bay, Xovat Zombda, under Lientenant Andreiof.
Antricans - Puint Barmas, North Americe under Lifutenant Ras, l. A. A.
 ant A. W. (irenly U.A...
Englioh - Cireat slate Latse. Dominion of (anadat, under

 under I)r. (iator.









 ingotment mat the fullowing August. When they started hy
hoat and sterlge for the coast of Nova Zembla. By August 2.). they deadnel the south point of Waigat Istand, where they met the Aordenstijold and were safely landed in Hammerferst, septentorer 1. 1sse3.

The insetimathe value of the combined and systematie record of the sementific olservations secured by the International ( Oircumpolar stations is a matter of public record. The sucerse wat complete, and all but the American mation might well be proud of the mathagement and protertion of fered to the fearless men detailed to the splendid work.

The maparalleled dixanter which overtook the Lady Frankin Bay exporlition under Lioutenant (irecty and his beave oompemions. through no fant of their own, lnt hy a scrios of mismanaged acecisents for which there was nevither
 orels whish the centurise cannot obliterate.
" If the simple and neecesary precelution had been takern, " wites \arkham, hother of the famous explorer, "of stationing a depot--lip) in a good hartour at the entrance of smith Formml, in anmat rommunication with (irecely on one side and with Ameriea on the other. there would hate been no divestor" : and he cemtinues. "If preceations proved to be neerssury hexperienere are taken, there is no medue risk or danger in polar entemprises. There is no question as to the value
 on which expeditions -hould he sent out. Their ohgeret- are
 natritime "materprise.

Limatenatiat (iferty * party com-i-terl of three officers hevides





covery, then proceded in open water to ('ape Lieher, $81^{\circ} 37^{\prime} \mathrm{N}$. There the ship was delayed by encountering iee in Ilall Basin. By . Dugust 11, she had pushed through and safoly tanded the party at the old winter quarters of the biscorery in 185: 1876. Immediate preparations were made for buikding a house, and after all supplies wore landed, the Proteres sated home, learing Lentenant (ireely and his party at "Fort ("onger." Indications of approaching winter appeared ats carly as dugust 27 , and the season proved one of umasusl serorits. skedge joumers, hunting parties, and exploring trips, combined with reqular duties, seientific observations, exerefe and moderate ammements, insured the party areat son of sucerespul tabour and good heabth.

Travelling in one instance a week, in anothere ten days, in frightful temperatures averaging $73^{\circ}$ bedow freezing, Licutenant Lorkwood and I)r. O. Pary, surgeon of the expedition, with their companions, endured the severity with surprising energy. The ice conditions of Roberen (hammel were awere tained and depots cetahtished at ("aperumer for wise in the following spring.

The sun left on Octolere 15, and was ahsent one humdred and thite-fixe days. The emrons offere upen the mind produed hy the long Aretie night is recorded in Deecmbers. ". About the 10th." writes Liententant (ireoly in his Report, "a fow of the mon wave indieations of heing affered by the continual darkness, but such signs soon dizappeared amb cheorful -phrits retumed. The kininos appeared to he the
 ketrine the station in eaty morning, whthent mit:one and







ohjection, and in time recovered his spirits. No cause for his action in this repect could be ascertained.
1)r. Pary, who had spent the previous year among the Eskimos, said that this state of mind was not infrequent among the natives of lower (ireenkand, and often resulted in the wandering off of the subjects of it, and, if not followed, by their perishang in the cold.

As early as February 19, 1882, Lockwood and 13rainard made a dog-sledge trip to one of the depots, ckeposited the previous aut umn, a journer over the foot-ice of twenty miles. On the 29th of Fehruary, Lieutenant Lockwood, accompanied by Brainard, four other men, and two doy teams, made an experimental trip to Thank Cod Harhor preparatory to his proposel grand expedition along the eoast to northern (ireenland. Visiting the grave of Charles Francis Hall, Lockwood wrote in his journal the following touching tribute:
"The head-board erected hy his comrades, as also the metallic we left by the Enghish, still stands. How mournful to me the seene made more so by the howling of the winds and the thadk atmowhere! It was doubtles best that he died where he diel. I have come to regard him as a visionary and ath enthuriat. who was indebted more to fortume than to those prartical ahibitice which Kane posesesed. Yet lee gave his life to the eanoe, and that must ahways go far toward redeeming the shoteomings of any man. The conchating lines of the inserintion on the Eneli-h tahlet, I think good. "To ('aptain llall, who -acrifiecel his life in the adraneement of somer, Noxember S. 1s71. This tablot has been ereeted hy the Briti-h polar axpelition of $15 \% 5$, which followed in his

D): Pary, acompaniol hesereant Rier ankl Ekimos Jens
 Gimberl Latnl. A -upporting -lerlge under sergeant Jewell


 forced mateh batk to Fort (ongere and recured a herw rumes. storm- retarted their ardranee but in -pite of the worgh condition of the ice, ath supplies were trought up to ('ape Joseph Henry and left there 1 pril 20 . Two datis kater at volent -tomare in, and alter it subsidnd, the party pusherl on toward

 increated in width, a reteret wat decerted on, but to his con-
 himmalf adrift on a flot in the Polar ()eean. Fortunately the floo was driven agamet the land near ("ape Homer, and after
 (acaperd to the mamband, but was ofliged to give up further (explonation-

In the metntime, Lientenant Lorkwond had eompheted







 ( incle."







being unfit for continued fiek work. Pushing on for Repulse Harhor, with three homdred rations and eight men, Lockwood advemed in the fatere of storms, rough iere, and hroken sherges, at the arorage rate of nine miles per day. The men suffered muth from show-hlindness, and the unwonted fatigue of drageing the heaty sledges through areas of soft, decp show. It (:ape Bryant, which was reached $A_{\text {pril }}^{2} 27$ a rest of two days wat taken, during which Brainard, with two companions, visited the highest point of (aper Tulford.

On the $29+h$ of May, Lieutenant Lockwood sent back the supporting sodge-men and, with Brainard and the Lskimo ('hri-tensen, the dog-idedge and twenty-five days' rations, pursued his journey north areosis the Potar Ocean to Cape Britamia, which was reached May 5 , after six jommers, the last a very short one.
"From the top of the mountain, 2050 fect," writes Lockwood. "which forms (ape Britamia, I got a good view all aromel. Towards the northeat hay a suceresion of herdands and inlets as far as I could see - some 1.5 or 20 mile - and this was the character of the coast heyond as far as I got."

They had followed ont the letter of their instructions and had reached the destination mentioned therein, but finding it prsibhe to continue their explorations, they pusted on ower hand nexer hefore explored hy math, arosing the frozen orean and reathing Mary Murray Istand the 10th of May. The paty wern now sulfering froun cold and insuffociont food. Ton hathand their rations, they had eaten very litte of late.
"The dogs wore ravenous for food, and when ferding time samme. it was amill hows from the men and fights among the dog- that the distribution was makle.
 floce - o high that the stedge wat lowered hy dog-traces : by


their proweres, these mon pushed holdly on, and on Xay 15 ,

 ing a eom-iderathe eleation, Loekwood menfured Mrs. (iseely*s pretty litthe sitken flag and "ofor the firet time in two hundred and serenty-fire years another nation than Enghand chamed the honore of the farthest north, and the Enion Jack gave way to the stars and striper-"

From this point the most nowtherly land som was (ajes Washington : heyond to the north "hay an moroken expanee of ice. interrupted only hy the horizon," Haten (oat tremeded to the northeatet, in at sucero-ion of high, rocky, and precipitous premontories.

Evidenters of regatation and getme were found in this high hatitude. Lomming-, ptarmigun, foxes, and harw fomm their
 forethoht in the uneongenial oril.
". A- we think of Lerkwoot." write (harke Lammant, his hiographer. "at the eand of his jommers. with menly two companions. in that land of utter dexolation, we are otruck with athmiration at the combage and manly - pirit hy whel. he wat


 herof furpure therely wimine athere in hi-tory of wheh his comatremen may woll, athd will. be pernel to the end of time."







youth! Itome again, when this Aretie experienee shall be a thing of the past! But it must be confesserl, and lanentable it is, as well as true, that the remimisernees to which my thoughts oftenest recur on these occasions are connected with eating, - the favourite dishes I have enjoyed, - while in dreams of the future, my thoughts turn from other contemplations to the discussion of beefsteak, and, equally absurd, to whether the stew and tea at our next supper will be hot or cold."

Joining the supporting party at Cape sumner, the entire party, suffering from exhaustion and snow-hbindness, reached Fort Conger, June 1, 1882. During the absence of Lorkwood, Lieutenant (irecly had left Fort Conger, April 26, 1882, and penetrated Grimnell Land, reaching Lake Hazen, a glacial lake, some five hundred square miles in area. Lake Hazen Was again visited by Greely in June. "Following up Very River to its source, the farthest reached was 175 miles from the lome station, between Mount ('. A. Arthur and Mount (c. A. Smith, whirh evidently form the divide of Grimnell Land, - between Kennedy Channel to the east and the Polar ()eean to the west." Ascending Mount C. A. Arthur, the highest peak of Grimnell Land, Greely stood 4500 feet above the sea. and saw to the north of Lake Hazen snow-clad mountains, aum distant country to the southwest was also covered with eternal snows. Lieutenant Lockwood subsequently supplemented Greely's diseoveries of the interior of Grimnell Land with the result that jointly 6000 sequare miles of territory wat exammed, an aceomplishment which "determines the remarkahle physical eonditions of North Grimell Land. It brought to light fertile valleys, smporting herts of muskoxem, ath extensive iececap, rivers of eonsiderable size, and a ghatial lake (Itazen) of extemsive areat

Trates of Eskimos hatingwintered at Lake Hazen, as shown ber permenent huts, were a coure of surprise to the explorers.
"sucesesful to such a degree as were these geographical explorations," writes (ireely, "they were strictly subordinated to the ohligatory ofservations in the intereste of the physical sedeners. Systematic and memitting magnotic observations served to round out kowledge by (nabling seien-tist- to cealenlate the secular ratiation of the natanetice declination of the smitle sound region. Apart from the gencral value of the meterological series it has most fully determined the elimatie comelitions of (irmonell Land.
"The tidal ohservations were eo eomplete at the station and so amply supplemented hy outlying otations, that sexemtists have determined not moly the eotidal lines of the Polar Ocean with satisfactory remulto, but abo learned from them that the diurnal inequality of the tidal wate conforme at Fonet Conger to the widereal dax. The pemelulune obervat tions hase been clawed at far the beot that hate orer been made within the Aretic ( "irele" amd the "determination of gravity "therefrom) ha-heern -inenlarly -ucoes-ful. DBotanical, zorlogical, and anthropological reatarches were pursumb with rimilar unremitting attention, - that the sejemtifie work
 plete. - aperially in view of the high hatimbe of the -tation."

 them. I seromel winter pased in the shem monotony (hatar-teri-tio of the Aection sioght.

In orter for fatitate his perteat in care the relief rowel of





 lim.

As early as December 2, 1881, active steps were taken at the War Jepartment in $\mathbb{W}^{2}$ ashington for the relief vessel of 1882 , estimates for an appropriation of $\$ 3.3,000$ asked for, and negotiations for supplies opened with firms at st. Jolm's and with the Danish government for stores to be delivered in Cireenland. In May, 1852, a board of officers attached to the signal rervice met at Washington to consider plans for the relicf expedition. And the ultimate result was the sailing from st. John's, Newfoundland, on July 8,1882 , of the sealing vesent Aeptune, with Mr. William MI. Beetse, Jr., a private in general service, and formerly seeretary to the Chief Signal Officer, in charge of the relief work.

The lipptune touched at Godhaven on the 17 th and took on supplice; then directing her course slowly and with diffimulty turos Metville Bay, she came in sight of Cape Tork on the 2.5th; Littleton lsland was reached on the 29th, where Whe war hlocked by ice and obliged to return and anchor in Pandora Itarbor. The next forty days the Neptune made fruitlese fforts to enter Kane rea. In the course of her many fuilures to penetrate to the north, she found anchorage between (ape Sahine, Brevoort IAland, where Beehe examined the Enolith carhe made by the Discorery in 185\%. This cache, of at much importance to (irecly's men later. was found to (esitain one barrel of camed herf, two tins (forty pounds wath of haem, one barred (one hundred and ten pounde) dogbiamit, two harreds (one homdred and twenty rations rach) hiacoit all in sooded condition ; two humdred and forty rations. con-iting of chocolate and sugar. tea and sugar, potatoes. wicks, twhaco, salt, tearin, onion powder, and matches, in failly goonl comelition. Beele failed to leave any provisums of his own.

On Augu-t 2.5, ufter a fourth trial to penetrate the pack. the Siftum terumed to Littlotom Ifland with the intention of making depots. Natives heing in the vicinity, who in all
probability would steal any deposits left, Beche concluderd to poetpone making the cache and proerederl to (aper sabine. Here he deposited, according to his orders, two hundred and filty rations, one-eighth of a corel of hirch wood, and a whalebeat. The Veptume then made a fifth attempt to penetrate the patk, amb again on september 2, her sixth and final effort. Fimbing it imposible to adranee, she returned to Littleton Ishand, amel a second depot of two humded and fifty rations Wat cathed. she now started on her homeward voyage,
 his- instruetions from the signal offiee, for the relief of the Lady Framblin Pay expedition, and loft two depots of two hamberl and fifty rations, or ten diys' supply, returned to St. Johm - carrying :afely fom the barem thores of the Aretice two thonsaml rations, of a full smply for there months.

The return of the relief party of 1 ste 2 made the expeedition that wats to fellow the next summer one of grave importance. In the eourse of official commmandation on the subject between
 stated that "it is mose desirable that the offierer and the
 pasetimathe, in ordme that they maty be ramed and hate ex-



 and thair manaterment mader atl ammetions:"












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mixed arms of the service under a single control, would be hazardous, and such action is strongly advised against by the many persons of both Army and Navy I have discussed the subject with. The ready knowledge of boats and instruments is but a very small part of the indi-pensable requisites in this case. This whole work has required a great deal of attention and study from the first, and I have not a doult but any transfer of control now would result in failure to conver all the threads of this half-finished work, and that it would work disastrously in many ways. In view of these fact-, I wouk consider the transfer now of any part of this work to any other control as very hazardous and without any apparent promise of advantage."

First Lieutenant Eruest A. (iarlington of the 7th Cavalry, having volunteered his services, was ordered, February 6, 1s.3, to report at Washington. Since his graduation from the Niilitary Aeademy in 1876, he had served with his regiment at Fort Buford, Dakota Territory. Four enlisted men who had rohnteered were also ordered from Dakota.

The Protens: was chartered and made ready for her voyage. A request was made by the Chief signal Officer on the 1 th of Nay that a Nary ressel should be detailed for service in conneet iom with the expedition, "as escort to bring back information. render assistance, and take such other steps as might be nevestary in case of unforeseen emergencies." The Yontic, mider Commander Frank Wikdes, was setected, and underwent surh preparation as the limited time permitted.
(iarlingtom was instructed to examine, if pos-ible, all depots of provisions and replace any damaged artiches of food, and if the Protema would not get through, the party and stores should he laneled at Life-Boat Cove, the vosed sent hack, amd the party should remain. The Yontic was to acempany the Protens
 berembe neersary: Licutenant J. (: Cohwell of the Nary,
having rolunteered his services, was detailed to accompany Garlington. The Proteus and the Youtic keft st. John's the 29 th of June, 1-3.3, and were som ont of -ight of each othere

The Protens encountered ice in Molville Bat. (iartington exanine the Nares cache of eighteen humbed rations on southeat ("ary Island, 60 per exnt of the rations presings to he in grout condition. There is no record that the 40 per cent were replaced from the Protens s. stores.

Littleton Letand was paseed without a eathe heing left there. The iee prevented an advance, and (iarlington thereupon deededed to ere to ('ape sabine "to examine carhe there, leave records, and await firther derolopments." ." It hatf-pa-t three the Protese came to anchor at Payer Harbor," writes schley. "'he remained at her anchorage from :3:30 to S P.M. This stay of four hours and a half at (itpe - -abhine Was at toming-ponint in the history of the rediof maperlition. It Was madr up of solden moment-. It io truse that mon me conded prediet that hey that time next day the P'olens womd he at the betteme of the Kane sea. It is aloe true theat (iartingen"s intruetions had becen officially con-trued as bot ind erting the formation of depote on the way mopth, and that the importanoe of reachong Lady Franklin Bus had Frem impmesterl upon his mind as the main momose of has atomoter. It the- - thas time it wat lenown with tolerahle containty that two
 his- Entention-: and the cemmmander of the relief expentitiom,
 in-tmated that if landias- -hond he mande at pentit- where






from Brevoort latand，and close to it．The position of the cache was well known．Beeto had visiterl it in 1882．The Protere was now at Payer Harbor，probably within half a mile of stalknecht Iskand ；and on board the vesel were the four depots of provisions，of two hundred and fifty rations each， that had heen arranged at Disco to be in readiness for landing at rome time and at any time．＂
（iarlington ordered two prisates to land and take a set of oherrations，while he went with a party of men to examine the eaches．The repair of a cache and the set of ohservations are all the work reported as having been done at Cape sabine on the way north．
（ iarlington then put to sea，and followed the open leads of water to the northwarl．After an advance of twenty miles，the ship was stopped by the pack near（＇ape Alhert． The following day she was ermshed，and the erew and relief party took to the Hoe，throwing overhoard such stores and provisions ats came to hand．Lientenant（＂olwell was the last main to keave the ship．（iarlington and his party of fifteen men，two whale－hoats，and provisions for forty days reached （＇ap）e sahine in safety．JIe now fohlowed the＂Wildes－Car－ lingten agreement，＂which said＂rhoukl Protens be lost， pu－h a hoat with party south to Y＇antic．＂
（ atringeton＇：record loft hy him on Brevoort Island read in part：
＂Depot lataded ．．．joo rations of bread，tean，and a lot
心が，visited hy me，and found in good comdition．English drpot in dameterel condition，not risited by me．Cache on
 way to Littleton I－kand，with orders not to enter ien ．．．I will embeatome to eommanieate with these versels at onder． Fiadthing in pumer of man will be done to rescue the （Creely s）brave men．＂
"It transpired," writes (irecly, "that there was no boat at L-ahellaz: that ( darlington's orders to replace damasen racher were imperative and dicobeved; that he had no knowledge that the Littloton Island cache was safe; that at sibline le took every pound of food he could reach, themeth told that (ireoly was provisioned only to August. 18s..3: and that after ('olwell's skill had brought (iarlington safe to the I'tutic, he did not even ask Wilato to go north and laty down foot for (ireely, otherwise dormed to starvation.

On Feptember 13, 1ssis, (iarlington wrute from st. John's. Newfoundland, to the Chief signal Offieer, L.s. A., Warhing-ton:-
"It is my painful duty to report total failure of the experdition. The Proteks was rmohed in pack in latiturle $70^{\circ}$. $2^{\prime}$, longitude $7 t^{\circ} 2.55^{\prime}$, and sunk on the afternoon of the 23 d July My party athd erew all saved. Marle my Way acrose smith Found and atong eatern shore of ('ape York; thenee acrose Monvile Bay to Lemernavik, arriving there on 2 tth Jus. The Fantic reached Coprnarik 2 d sent. and left same day, hringing entire party here to-day. . All well."

To telcoraphice incuaries from the signal office a-king what - tore had been left for Cirecty came an-wer : -

- Vor sorer landed hefore sinking of -hips. Dhonat five





Wre Itato to the inmaination the akam atonod by the -addent ratization of what this fathure meant to our fellow-




 1herertas.



The date of Garlington's letter read "September 13." With what horror did it dawn upon the public mind that the abandoment of the well-supplied station at Fort Conger was ordered "not later than" september 1. Even now Greely and his men, leaving behind them a seant year's army rations, and carrying with them erery pound of food possible, were making their hazardous retreat in "heavily laden boats through water-ways crowded with ice, acted on he strong currents and high winds, the recurring heary gales, keeping the pack in constant motion, to and fro against the precipitous and rockbound coast."
"Time and again," writes (ireely, "only the most desperate ffiorts and measures secured the safety of the spectatly strengthened launch, while the whate-hoat escaped destruction only by speedy unfoading and drawing-up on floes. Every cache, howerer small, was taken up, ending with damaged, mouldy hread, ete., at ('ape Hawks.'

Fort (onger had been abandoned August 9. 1883; on september 13, the whate-hoat had been left hehind (afterward recovered), and the men were fighting their desperate way arross the park to the shore. The following day (ireely made this entry in his joumat : -
"The absence of sufficiont light to cast a shatow has had very unfortunate results, assereral of the men in the past fow days hate been sadly brused or strained. When no whadows form and the light is feedle and bhented, there is the sume uncertainty about one's walk as if the deepest darknesperailed. The most careful ofservation faile to advise you as to whether the next step is to be on a level, up an incline, or oner a precipise These conditions are perhap the most tayg to sergeant Brainard, who, being in aldance selecting our rom, fimb it necessary to travel as rapilly as posible. I few had falls quite demoralize a man, and make him more than cere doulthul of his senses. Travelling lowly, with our
heat ily laten stedees, we rarely suffer much from this trouble. as wor sheps are show and uneertain at the hest, hut when a jat does come on a man malling his best, it gives his system a great hook and -tram."
()nsemember 17, all artieles that were not of vital importanco were abondemed, and set the men were hauling about six thousand pounde. It the end of a weary day sergeant Bramaril wrote in his journal : -
"Turned in at 11 p.M., after ten hours of the severest physieal strain. As the slecping-hags (of those of us in the tepere) are protected from the ice by only one thickness of fanvas, sur eomfort can be imakined."

Threr days later he adds:- -
"Wo are now camying hurdens which would arush ordinary men, but the texture of the party is of the right sort, and derasity will have very little affeet on our pirits."
(On Shetember 2!), 1ss:3, (irecty made a landing at a point midway betwern ( 'aper sabine and Isabella, after fiftyone lays of the most arluons travel.
"The retteat from ("onger to ('ape sabine," whes (ireely*
 a homberd with sedere and hoat; the greater part of wheh

 and condurance of ant party, and the (aphatity of any commather. As to my offieres and ment it is but soant justiece to

 (amb they wom many) of our aront ful reterat."



 thirl, of shooting suffieient seal and walrus near he here to
last churing the winter. Our situation is certainly alarming in the extreme."

These mon were shelterless, with but a small food supply, with impasiable harriers of ice north and south. "some hunted on land, others on ice ; sone put up stone huts, others searthed for cairns and records." The Aretie night had sethled upon them before their huts were barely finishect, these huts of heary granite stones, (lug from the show and ice, lifted with swollen and bleeding hanch, put in place with hack-hreaking efforts, ly enfeebleal. weary men, and into them they crawled with torn clothing, hand and footgear in holes. corering shivering, aching boties.

In this deperate plight, soouts returned with news of the sinking of the Proteus and with the notice from Lientenant (iarlington, describing the disaster, his plans and his retreat, and the carhes of provisions at ('aperabine. Relying on the expresed promise that "everything within the power of man will be done to reseue the brave men at Fort conger from their perilous position." (irecly at once enteavoured to move his party near that point. "(amp ("ay" was extabli-hed on Berlford Pim Island, which was reached ()ctober 15, with forty days rations to tide over two hundred and fifty days of darknoer and miscry until help eonkl come. Another hut was crected hy the same arduous metherts employed in buitding former huts. The rock walls were about two feet thick and thire fere high: out-ide this wahl was an embenkment of show at firs four feet thick, hut as the reason arlaneod the winter gales harial the hat entirely in -now.
-The whale-bomat just caught on the emel wath. and under that hoat wat the mily plate in which at matn conlel orem get on his knows and hold himsolf weret. Sitting in one hass



is almosi intolerable．The men，though wretehed from cold， hard work，and hunger，yet retain their spirits wonderfully．＂

It now lehooved the party to gather in the stores from all the eaches，and this wat done under the most trying condi－ tions．The news of the losis of the Jetunette was learned by a newspaper found among the stores and brought in with other articles．Records and instruments of the Laty Franklin Bay expertition were safcly eached early in（）etober on Stalk－ neeht Iskand．

During the few remaining days of light，the hunter，Long， with the Lekimo，remained ont of the floe in the intense cold， ill fert，without shelter，for the purpose of seeruring seats or other game that might be seeph．A seal was all that was se－ cured meler the most trying eiremonstances．

When certain of the stores were examined to ascertain their condition．the dog biscouts were evidently bad，but －When this hread，thoroughly rotten and eovered with green mootd．was thrown on the ground，the half－famished men －prang to it as wikd anmak woukd．＂（）etoher 2f，18s？，marked the latet day of suntight for one homderd and ten days．The hamters still pursued their lahour－，hat without suceese．How－ ever，on the lat day of the month．＂lkemder wat fortunate enough to kill a hlue fox with his fist ；it was caught with its head in a meat－cean．＂

Wh rations had heen folleceded exefot one humdred and forty－four peomd－of beef carched he Nare in 157．5，forty miles di－tant at（ape Isabodla．A further reduction of the quantity of food sorverl to each man wis inatumated No－ vontor 1．Tha followine dat Rice，Frederick，Llimon，and

 hatandous trasel in tomperatures ramging from－200
 atal Fahian up their（ande of meat，they statere on the
return journey. On reaching their first camp after fourteen hours of hard travel, Elison, who had done this daty's work on a cup of tea and no food, was found to have frozen toth his hanchs and feet. "Our sleeping-bag was no more nor less than a sheet of iee," writes Frederick in his joumal. "I placed one of Elison's hands between my thighs, and Riee took the other, and int this way we drew the frost from his poor frozen limbs. This poor follow eried all night from pain. This was one of the worst nights I ever spent in the Aretic."

Contmuing the next two days with their half-frozen comrade, they reached Eskimo loint. Here they cut up an abandoned ice-boat for fuel, and endeavoured to thaw out Elison's limhs and dry his clothing. "When the poor follow's five, feet, and hands commenced to thaw from the artificial heat," says Frederick, "his suffering's were such that it was enough to bring the strongest to tears."
diter labouring nineteen hours for the welfare of their suffering commade, Rice and Frederick attempted to advance. - . We tried to keep Elison in front of us, but to no avail. He would stagger off to one side, and it seemed every moment that the frost was striking deeper into the poor man's flesh. We fastened a rope to his arm and the sledge, as it now took three men to haul our load, but every few rods the poor fellow would fall, and then sometimes he was draged serveral feet. No person can imagine how that peor man suffered.'

Unable to haul Elison any farther, in the fare of a gale and the piereing temperature of $-20^{\circ}$. it wats deceded that Rice shmbly start for ('amp) Clay for assistance. Withonlyalit of frowen meat for fool, he started alome in the Dretie clarkness athd travelled twenty-five miles in sixteren hours, searhing the (amp) at midnight. Immediate reliof was started, Ferereant Bramard and christiansen lededing the adrance, to the folbowed two hours later by Lieutenant Lockwood. the doctor, and four of the men.

The fourfur night spent by Frederick, Lymn. sum their fireven rempention can hardly be pietured. "Wic tried to wam him," says Frenterick, "but at wo hay hetphest and - Aivering with the cold, and poos Elison groaning with hunger (his frozen lips did not pernit him to gnaw the frozen neat) and pain, you can imagine how we felt. Lym was a strong, abk-whetied man, but the mental strain cansed by Elisun's sutfering mato him woak and hoppers. In fact, I wat afraid that his mind wonk be impared at one thene. We were but a few hours in the hag when it beeame frozen on hard that we cond not hum ofer, and we had to lay in one proition eighteon hours; until, to our great relisf, we heard Brainard' - wheming voiee at rule side. There was nothing more weteone than the presere of that noble man, who had come in adrane with branty for Eliom and food for all."

The rowne party, athengh wak and hadf-starved themretver, rachoed D:tion with all deatrath to find him in a very eritical comdition; his hames and loed were frozen entid; hiss face frowen 10 such an extent that there was hittle somblane of humanity:

If Noventere wat wheren in with such miffortune, the
 -ufferme. The hantere were ever on the aldert, and the oereafindal gane benght in wat the only wher that ampomaled

 the ememituing vigiture of the hantere, and, sednew to the



 (imedy wrote in hif jommal:
 tis (ant.

On December 9, there is rejoicing because Brainard and Long shot two blue foxes.
"We are all very weak," writes Lieutenant Lockwood, ten days later, "and I feel an apathy and choudiness impossible to shake off. It is a great difficulty to know each night just how much bread to save for breaklast on the morrow, - - hunger to-night fights hunger to-morrow morning. I always eat my bread regretfully. If I eat it before tea, I regret that I did not keep it ; and if I wait until tea comes, and then eat it, I drink my tea hastily and do not get the satisfaction I otherwise woukl. What a miserable life, when a few crumbs of bread weigh so on one's mind! It reems to be so with all the lest. All sorts of experlients are tried to cheat one's stomach, but with about the same result."

On December 21, Licutenant Creely says: -
"sergeant Bramard is twenty-seven to-day. I gave him hatf a gill of rum extra on that account, regretting my inability to do more for him. He has worked exceedingty hard for us this winter ; and, while all have done their best, his cudurance, unusual equanimity of tempere, and impartial justice in connection with the food have been of invaluable sorvice to me."
" Mouldy hard bread and two cans of soup make a dimmel for twelve," says Bramard. "It Fort Conger ten cans of sond were noeded to begin dinner. But even the dire calamity which now confronts us is insufficiont to repress the great flow of gook nature in our party gencrally."

- I terrible seche oceurred in our wrotehed hut during the moming," wites Bramard, March 24,1 sht. "Whike prequaing hreakfast (tex) the cooks had forgotem tor remove the bundle of rages from the rentilators in the roof and the fumes thrown off by the akeohol kemps, being eonfined to the small treathing epare, soon produced atephyxis. Biedentick, ome of the cooks, was the first to succumb) to its effects, and

Isracl immediately afterwath became insensible. At the suggestion of (iarcliner, all the rest of us rushel for the toor, and the plug- were at once removed from the roof and the lamps, extinguished. By prompt attention, Dr. Pary succeeded in reviving Israel and Biederthek. Those who went out-ide were lese fortunate than those who fainted in their lags. Arsoon as they came in contare with the pure out-ide air, all strength departed, and they fell down on the show in an unconserious state. In comerquener of the aheonere of all animation, many of us were frost-hittem - Lieutenant (ireedy and myedf quite sererely. The lives of several of the men were probahls saved through the nothe efforts of (iardiner. who, though weak and -ick, did all in hir power to get us in the hut. . . During the excitement of the hour about hali a pound of haron was stolen from Lieutenant (ireety oners, and at sum at the fact berame known. great indignation waexpresed that in our mild lived a man with nature so vile and corrupt - so utterly deroid of all fer ding- of humanity a* to steal from his starving emmanion- when they were thought to be dying. I deed so contemptible and heartless could not long remain conceated from these who had been injured. We were not disappointerl in the diseovery that Ifenry was the thief. He had literally holteel the harom, and his -tomath was orembated to such at degree that. in ite conferehter state, it could not retain this mumal yuantity of fomed. and his erime was thus duectod. Jeme atterwartrequertend having sern him commit the theft, and illustrated ha - ign- hif manmer of dome it."

Poner -utherimg lition!" her writer a fow ders later. "This momine he turneal to the doctor and said. Wy toxe are harmene treatfully, and the soke of my fere are it haing in at wer unemfortahle maner: (ean rom not the somenhe to was thi imtation". It lithe dremme that he hat meither


On March 21, (irorly makes this entry: -
"A storm prevents hunting. . . . It is surprising with what catmners we riew death, which, strongly as we may hope, seems now ineritable."
A.s the gaunt and ghostly form of Death laid its fatal touch upon thr weakest one by one, a strong man stole food from comrades, and stole again, and justly forfeited his riolt to live. Then one by one they died, the Ekimo, ('hristiansen, from axhaustion, and Lymn. "He asked for water just before dying: and we had none to give."

Then Rice sacrificed his life for others, dying in the arms of his eomrarle, Frederick, near Baird Inlet, where he had trone in seareh of a hundred pounds of English beef abandoned in November, that Elison might be brought to camp alive. Then Lockwood died and Jewell faiked - and soon joined his slepping comrades, and yet in face of horror crowding upon horror, there is an entry : -
"On Easter Sunday we heard on our roof a snow-hirk chirping loudty - the first harbinger of spring."

In the meantime, the chicf dependence of this rapidly diminishing party was derived from the gathering of thrimps - or sea-lice; the small crustacea were from ons-eighth to one-half of an inch in length, consisting of about four-fifths thell and one-fifth meat, and about seven hundred of them were redquired to weigh an ounce.
"Dr. Pary satr," writes Brainard in his journah. Itay 20. lᄂ」, "that our food must be something more substantial than these shrimps, or none of us can live long. I caught twelse pounds of these animaks to-day and one pound of marine vegetation. Returned very much exhatusted from this trip). (:annot kast much longer."
" (isterpillars are now quite numerous on the bare spots of Cometery Brifere" he writes a day" or two later. "Ye-terday Benker saw one of these animak crawhing over a rock nesar the
tent, and after watching it intently for a moment he hastily transfered it to his mouth, remarking as he did so, "This is too mumh matat to lose.' "
(On May 2!) there wats a coutheast gale and drifting snow. Bramard and Long returned from their day's hanting with a frew pounds of shrimps athed a dovekies. "(On returning to the tent," writes Brainard, "])]. Payy and Lator refused to admit me to their sherphing-tag, in which I oererp) ied a phace. Physically I could not enforee my rights in this matter, my condition bordering on extreme exhathtion, and wishing to arod any mpheasantness, I rawhed into one of the abme doned hage kring outside, as the only altemative. 'This bag was frozen and filled with show. ('an my sufferings he imagincel!. They eortamly fannot be deseribed.
"suffering with the umatism, and smarting mater the semse of wrong done me hy my serping-hag companions, mental agony wats adrad to physical torture.
"Torday l batught six pounds of shrimps. This "xaning (Junce (6) dimmer eonsisted of a sterw eompored of two boot-
 The smatl ruantity of hormps which I furnish daty are suffirient only for the morning meal.
"W"efhestay, June 11, 18st. Longereturned at 1:30 A.m. from the opern water, hringing with hime two fine gnillsmots whid he hat killend. ()ne of these wets givern to the gemeral moses, and the othere will he divited anomg those who ate doing the heary work for their weaker fonmbanions.
 hatre beoken ont thr ier at the shrimphag place amb my nots hatw hern catrien atway and hat: my hats, bex amt miser-




not have the heart to awaken the poor fellows, but I let them sheep on guietly under the delusion that breakfast woukd await them at the usual hour in the morning. How I pity therm !
"I made a flag, or distress signal, as it might be more properly temot, which I intend placing on the high, rocky point just north of our tent, where it may be seen by any ressel passing (ape stabince"

Ten days later the whistle of the Thetis blown by ('aptain Schler's orters to recall his searching parties fell lightly on the ear's of the dying Commander of the Lady Franklin Bay expertition.
"I foebly asked Bramard and Long if they had strength to go out." writes (irecly, "and they answered, as always, that they would do their best."

From the eutter, as it enterect the cove, Lieutenant Colwell, straining his eyes, reeronizerl the familiar landmarks of the year before.
"There, on the top of a little ridge, fifty or sixty yards abore the ice-foot, was planly outlined the figure of a man. Instantly the coxswain (aught up the boat-hook and waved the flag. The man on the ridge had seen them, for he stoopert, picked up as signal thag from the rock, and wared it in reply. Then he was seen commg slowly and cautiously down the sterp, rocky slope. Twiee he fell down before he reached the foot. As he approached, still walking feehly and with difficulty, ( ohwell hated him from the bow of the boat: -
" 'Who all are theire left?'
".seren left."'
"As the eutter struck the ice." continues Schley, "Colwetl jumperd off and went up to him. Io was a ghastly sight. His eheeks were hollow, his eres wild, his hair and beard long and mattre. His army blouse, covering several thicknesers of shirts and jackets, was ragged and dirty. Ife

Wore a little fur cap and rough moecasin－of untame leather tient aromel the leg．As he epoke，his utterance wat thick and mambling．and in his agitation hi－jatw－workel in ron－ walsere twitelese As the two met，the man，with a sudden impular．totek off his glove and the k＇olwell＇s hathd．

＂．In the tent，said the man，pointing over his shoukder， －があり the hill－the tent i－down．
＂．I－Mr．（irendy adiva？＂
．．Yes．（iperely alive．
－－Suy other offieme？＊
．．No．＂Then he repeaterl absently．＂The tent is down．
$\cdots$－Whatare atou？＂
－－Long．，
 －tarted（up）the hill．Hattily filfing hio perket－with loreak． and taking the two ceanc of pommirath．（olwedl told therex－ －Wain to take Lence into the fattore and startal after the












＂－Thare in the limatmatat．



the soldier,' and was about to salute, when Colwell took his hand.
"At this moment there was a confused murmur within the tent, and a voice said, -
". Who's there?'
" Norman answered, 'It's Norman - Norman who was in the Proters.'
"This was followed by crics of 'Ol, it's Norman!' and a sound like a feeble cheer.
" Meanwhike one of the relief party, who in his agitation and excitement was erying like a child, was down on his hands and knees trying to roll away the stones that held down the flapping tent cloth. . . . There was no entrance, except under the flap opening, which was held down by stones. colwoll called for a knife, cut a slit in the tent cover, and looked in."
"It was a sight of horror," continues Schley. "On one -itle close to the opening, with his head toward the outside, lay what was apparently a dead man. His jaw had dropped, his eves were open, but fixed and glassy, his limbs were motionlus. On the opposite side was a poor fellow, alive, to be sure, but without hands or feet, and with a spoon tied to the stump of his right arm. Two others, seated on the ground, in the middle. had just got down a rubber bottle that hung on the tent pole, and were pouring from it in a tin can. Directly apponite, on his hands and knees, was a dark man with a long matted beard. in a dirty and tattered dresing-gown, with a little real skull cap on his hewl, and brilliant, staring eyes. As Colwell appeared, he ratised himsslf a little, and put on a pair of eme-glaturs.
". Who are you? 'aked Cohwedl.
"The man mafe no antwer, staring at him vacantly:
". Who are you"" again.
"()ne of the men spoke up, -
‥ That - - the Major - Major Cireely
" (ohwell catwon in and took him by the hand, vaying to hinı. -
". (iredte i- this you?"
 Andfling with his worls; 'you- -aren of us left - here wo are - drine- like men. Disl what I rane to do - beat ther bese reeored.
 *gualor. The rocky floer wats cotered with eastoff clother.



 strins ant from the sealakin chothines. The bottle on the trat-

 (lent that most of than ham mot fone to live.
 there (atter to put alito the lowe with Lomer to requert and to heme the strexen with -thatant-, while he fent the drine







 lu! :-11.




"a hard winter," and "the wonder was how in Crod's name ther had putted through."
"No worals," says schley, "can deseribe the pathos of this man's broken and enfeehled utteramee, as he sadel over and over, 'a hard winter--a hard winter'; and the offifers who were gathered about him in the ward room felt an emotion which most of them were at little pains to eonceal."
soon after the Thetis came in sight, and her offieers, includine brave Melville, whose last sad offices for De Long had been but lately finished, went ashore and aided those from the Bear in the care and succour of the forlorn party.

As soon the possible the men were carefully moved on stretchers and carred in boats to the ships, but not before a hurrieane had broken upon them, which made the labour hazardous and difficult.

Meanwhile, Lieutenant Emory of the Bear was making a carcfal collection of all articles belonging to the eamp. Near the slerping-bag- were found litthe parkages of cherished valuathes, earefully rolled up, and ahdressed to friends and rebatives at home; the survivors, too, had ahready done up and addresed their own, and, strange as it may seem, a pocketbook was found containing a large roll of bills carriod by the owner for some unaceometable reason to the barren shores of Lady Franklin Bay. It was not difficult to move the bodies of the dead; there was only a thin covering of sand above the momels that formed the graves.

Looking out from the side of the hut to the ice-foot, Colwells attention was fixed by a dark object on the snow. Following a path which hed to it from where he stoorl, he found the mutilated remains of a man's body.
"It was afterward identifiod from a bullet hole," writes sebleys. "as that of Private Ilemry, who had been exocuted on the sixth of Jume."

Wrapping it in a blanket, Colwell carried it to the landingphere, where a seaman took the bundle on his shoulder. Presently the hoat rame off, and all who had remained on -hore were taken on board the Bear. The ships returned to Payer Harbor.

The next day, June 23, Lieutenant Emory, accompanied bex sebree and Melville, and a number of men made a second seareh at ('amp Clay, which lasted several hours ; everything Wat gathered up and brought away.

The offieere of the Thetis meanwhile had secured from stalknecht Island Greelys tin boxes containing his scientific reeorel- and standard penclulum.

The erdief equadron in $188 t$ under Captain W . S. Sehley and ('ommander IV. H. Emorr, and fitterl out under the pereonal orlers of the Hon. II. E. Chaneller, seeretary of the Netry, hatl brilliantly executerl its commiswion and had outrivalked the earlyseoteh whalers to whom a bountr had been offered hy (omgres for the speren rewere of (ireely, in pu-hmg boddly through the "mislde ice." "No relief or experlitionary reseble erer rentured at ex early a date into the dangero of Melville Bay." writos Cirecty.
"That the ["nitred, states Nary won in the rate for sabine is: the illustration of the wonderful ardaphability and abondant rewneres of the representative Americein seaman, which so wall fit- him for coping sureco-fully with new and untriexl dinate and make him at worthy rival of our kin acrose the $\therefore:-1$.

Sa trimmon the hore the remant of the Lanly Franklin Poy expedition home to relativer and frients. Only six


 What thronech '" at harl winter - a hard winter - in core di-tre " had loft thern tu their fate:



## CHAPTER XX

Nansen. - The man. - First Aretic experience. - Plans the crossing of Creenland. - Carries out his great undertaking. - Voyage on the From. - Drifting with the current. - Life aboard. Nansen and Johamesen start for the Pole. - Difficulties of travel. The "Farthest North." - The retreat. - A winter on the Franz Josef Land. - Attempt to reach Spitzbergen by kayak. - The meeting at Cape Flora with Frederick Jackson. - Home in the llinductrd.

The character of the explorer Nansen is best summarized in the brief paragraph explaining his plan for the first crossing of (ireemland.
" My notion," he says, "was that if a party of good 'skilobers' were equipped in a practical and sensible way, they must get across Greenland if they began from the right side, this latter point being of extreme importance. For if they were to start, as all other expeditions have done, from the west side, they were practically eortain never to get across. They woukd have the same journer back again in order to reach home. So it struck me that the only sure road to suecess was to foree a passage through the floc-bolt, land on the deselate and ierehound east eoast, and thenee crose over to the inhablited west coast. In this way one would hurn all one's -hips behind one, there would be no need to urge ones's men on, as the east eonst would attraet no one back, while in front Woulal lie the west coast with all the allurements and amentites of "ivilization. There was no choiee of route, formard heing the only word. The order would be: 'Death or the west eoast of (irembind.'"

Between these lines one sees the filber of this man, who deliberately stakes ont his rourse and invites a race with Dath to the goal of viotory: who (arefully curtails to the minimum thr po-sibility of fature ; who thoughtfully renoves from weaker companions all temptations that might jeopardize his chances of suceses, and who cearmes through a plan soffod at hy the world ats the impracticable scheme of a madman.

There is an indeseribable charm about this hold Norwegian. "who wat a terrible one for falling into brown stures," as a chilkl of whom his masters wrote. "He is unstahle, and in soreral sulgeets his progres is not nearly so satisfactory as might have been expecterl": who combimes a gentle. childlike disposition with an indomitahle will, never doulsting for an instant that he is right and the world wrong, and who steadfasily groen to work to prove his point. Born in lasi near C Chistianial ; educated in the mirersity of his native dity : fond of all the seremees: tramed as a zooblogist : a matwral athlete, an expert "skilober," a good hunter, with the spirit for alrenture which is totally carelese of all rereature
 prow of the Liking. a Norwegian seater. bomen for Aretie -rats. maty tor mere a fore worthy of hio mettro.

This hip) to Ditat (imeombat waters for the purpore of

 at liapern.







reached an elevation of sisty-six hundred foct, on the marvellous iec-cap which still rose before them.

Accompanied hy three Norweqians, Otto Sverdrup, Lieutenant Ohf ('hristian Dietrichson, of the Norwegian army, and Kristian Trana, and two Lapps, Balto and Ravna, Nansem sated on the banish steamer Thyra from S'cotland, May 9 , 1siss. The Thypre was to carry the little hand of explorers the first stage of their journey to Iceland. At the Faroe I-kands, Nansen learned of the sxtremely bad condition of the iee round I ferland. The east coast of the istand was reported inaccessible. By May 17 the Thyra stood off the Vostmama I-lands, and later she pased Reydjanaes, whech carries the only lighthouse Icetand porseses.

Anchoring off Thingere, the party took leave of the Thyma, and. warmly wekemed by Herr Gram, the merehant of Thingerver they awaited the Jasom, which was to convey them to the enast of Creenland. ()n the morning of Jume 3, the experotant party sighted a little steamer stowly working inwarks. As she came nearer, she was foumt to be the Isafold of the Norwegian Whating (ompany. She anchored and sent a heat on shore amid increasinge excitement. "I had begun to elsperet the truth," say- Siansen, "when, to my astonishlum in woll as jor. I recognizel in the first man who stepperd astone ('aptain Jacolsern of the Josent. ()ur meeting was abmont frantie, but the story wat soon told. He had reached L-afford, and, not finding is there had thonght of coming on 10 J Yeafiond with the Joson. But with the strong wind homing it wond haw taken his heavily rigoel ship a whole Why to mak the vereage and. as the Nomwegian (impany's matnaxer mot kindly offered to send the I sufold to detch us. he heth taken the opportumity of coming too.

- Fitrowells were hatily sath: withog hatnd- fransfermed
 outfit, of ('antatlian and Norwegian -now-ohoes. inctruments.
food, fued, and sereping eare a load of twelve hundred pounds for their fivesledges; and at restive and unwilling pony bought of H ere (ifam, and the $I$ safold steaned out of the fiord and to the northwarels."

For six werks the Jason made fruitles attempts to land the impatient explorers on this harren coast of (ireenland, whent, July 17, 1888, Natnsen and lis party attempted by boat to make (atpe Datn, from whielo they were separated by ath iorestream ton miles wide.
"When Ravnat saw the ship for the last time," writes Balto, the Latpp), "herest to me: " What fook we were to leave her to die in this place. There is no hope of life: the ereat sea will he our grayes ! ’"
slepping upon the floes at hight, drageing or rowing their heats he day, the journey to the eoast was perilous and dangerens: in the extreme. After sereral dity they found themxdes beine carried wouth upon the floe and "straight armay from shore, at at pate that rendered all resistance completely fatite."
"July 20," says Nansen, "I Was rousad by some riolent -hocks to the floe on which we were encemperl, and throught the motion of the sea must hate inereased very (onsiderably When we enet outside we diseover that the floe has split in two not far from the ternt. Ther Lappes whe had at onee mank for the highest peints of our piese of ire now shout that there eath see the open seat
"Ther swedl is growing heavier and heavier. and the water




 rapidiny."
awaited the issue with courage and resignation, though it must be confesserl the poor Lapps were not in the best of spirits. "They had given up hope of life, and were making ready for death." A nioht of fearful pronise succeeded a day of imminent peril. Sverdrup took the wateh and paced atone the rea-washed floe. Sereral times he had stood by the tent door prepared to turn his comrades out.
"Onee he actually undid one hood," says Nansen, "took another turn to the boats, and then another look at the surf, leaving the hood unfastened in casc of accidents. A huge crag of ice was swaying in the sea close beside us, and threatening every moment to fall upon our floe. The surf was washing us on all sides. . . . The other boat, in which Balto Was asleep, was washed so heavily that again and again Srerdrup had to hold it in its place."

A second time he came to undo the tent hood, but just as things looked their worst, the floe changed her course and as if directed by an unseen hand, saiked toward land, and took refuge in a good harbour. On July 29, the fates were kind, and they made a landing at Anoritok, $62^{\circ} 05^{\prime} \mathrm{N}$., nearly two hundrel mikes south of Cape Dan. Following the shore to the north, ther fell in with natives near Cape Bille.

The ier journey commeneed from Ninivik $64^{\circ} 4.5^{\prime}$ N., which was reached August 10, after pursuing their journey up steep, irreqular slopes, corered with soft snow and beset with dangerons crevasces ; they made only forty miles inland after serentern days of most arduous travel, and reached an cleration of six thousand feet.
"It was now late in the year," writes Nansen, "and the autumn of the "inkand ice' was not likely to prove a gentke satacon, so the face that it was considerably shorter croseing to thee he"al of one of the fiords in the neighbourhood of (iofthaab, to (hristianshab was an aroument that harl its weight. . . . I consulted the map again and again, made
the couldulations to myself, and finally determined upon the (ioclatab route. . . . The point where I thought of getting down wats that whicls we actually hit, and wheh lies at ahout latitute $6 . \mathrm{t}^{\circ} 10^{\prime} \mathrm{N}$. . . . Tha rest of the party hated mys change of plan with ateclamation. 'Thes acemed to have ahreaty had more than enough of 'inland iee, were longing for kimetier sernos, and gave their mondadified approval to the new route."
 Which swept the jee-cap, adranee was aseisted by this means, the men matehing on skis. so frightful were the storms that rated over these derohate show frwh that at night it sermed as if the tent would be torn to shrenk. and bofore a start could be mate in the moming, the senfere hat to be dug out of the
 clean of show and ier, "a task whint we fomm ansthing hat gratefind in the hiting wind. . . . hat the eruellest work of

 hask to be dence with the momenterent fineros. we hat to take

 that the finger- of ix, the mante wope white up to the patme.




 den-it! in the air, amb the reftection of therat- from the level





truded from the snow. It lay, of course, far in the interior, and for maty days had been the only dark point, save ourselves and the sledges, on which our "res could rest."

At an altitude of nearly eight thousand feet, they toiled on for dars orer the interminable desert of snow ; there was no break in the horizon, no object to rest the ero upon, and a cour"e was laid out by the diligent use of the compass alone. fronn the second weok in september the party had been andiously kooking for the beginning of the western slope. On september 19, Balto's joyful cry of "Land ahead!" sreeted the adrancing sledge fleet. The ire conditions had become mose formidable in character, the gradual deseent treacherous in the extreme.
"It was a curious sight for me to see the two ressels coming rushing along behind me," says Nemeen, "with their square Tiking-like sails showing dark against the white now fiekes and the hig round disk of the moon behind. Faster and fuster I wo flyig on, while the ice eets more and more difficult. There is worse still ahearl, I can see, and in another moment I am into it. The ground is here seamed with ere-rat-ice, but they are full of snow and not dangerous. Erery now and then I feel my staff go through into space, but the erack- are narrow and the sledges ghele easily over. Presently I crose a hroadres one, and see just in front of me a huge black abyse. I (reep) cautiously to its edge on the slippery ice, which here is covered by searcely any show, and book down into the deep, dark chasim. Beyond it I can see erevasce after crevasie, running barallel with ome another, and showing fark bhe in the mombight. I now tell the othere to stop, as this is no ground to traverse in the dark, and we mu-t halt for the night."

The jos of having aroserl the ice-eap and the prosepect of sureressully paseine the inland iere to the more eongenial soil of the wistern coast cated the little band to meet cherefully
the most arduous labour in a perilous deseent over erevasses and elacier, mountain, and valley into the promised land, of which old Ravna pooke with enthusiasm:-
"I like the west coast well ; it is a good place for an old Lapp to lise in ; there are plenty of remeleer; it is just like the mountains of Fimmarken."

Hatring reached the eoast, it hecame essential to reach civilization as well, and to expedite the journey it was found desimalhe to go by sea. The lack of a boat was a small consideration to men who had bokdly sated sledges across the Grecmband ice-cap - for though wood, tools, and materiats were latking, there was the tent and plenty of wilkow huthes aroumel, some six or seven feet in height. "Ribs mate of these would not be as straight as we coukl wish," says Nansen, "and woukl not streteh the canvas very evenly, lat the main thing wats to get her to carry us. . . By the exoming the boat was finisherl. She wats no hoat for a prize compertion. inderd in shape she was more like a tortoise-shell than amything ehae."

In this (razy little craft Nemsen and Sverdrup rowed away to get redef from the inhabitants of (ionthatab). Their companions remaned in Ameralikford, in charge of the stedges athe equipnont. (ireat wats the rejoicing in (ioxlthatah, when the explorere reached there and immediate preparations were mate to sureour the remainder of the party. These had slowly moved in the eliecetion of (eotthatah and eratefuhly welcomaed the kikimose who mot them with supplies.

I'nfortmatery the party missed the last buronean vesion that keft port that season atmel were ohliged to serent the winter
 aarriol he the lekimos down the coast to the Fox, Ir (lintorlk's ofle fescel, in his famous seareh for sir John !ramktin, ame this feteran little eraft carriod the thrilting news of the

and on April 15" the settlement rang with the single shriek - 'The ship, the ship.' - Joyfully the brave band of explorers received news from home, and ahost sorrowfully prepared to leave their hospitable friends of Codthaab."

On \ay 21, 1889, Nansen and his companions made their triumphant entry into Copenhagen - and, concludes Nansen, "\ay 30 we entered Christiania Fjord, and were received by hundreds of sailing boats and a whole fleet of steamers.

When we got near the harbour, and saw the ramparts of the old fortress and the quays on all sides black with peonle, Dietrichson sairl to Rarna: 'Are not all these people a fine sight, Ravna?' 'Yes, it is fine, very fine ; - but if they harl only been reindeer!'was Ravna's answer."

Previous to his famous journey across Greenland, in one of his many conferences with Dr. H. Rink, that veteran exphorer of Creenland, Nansen was addressed by Mrs. Rink, who sail to him: "You must go to the North Pole, too, some day," and without hesitation he answered her emphatically, as though his mind harl long ago been made up on that point, "I mean to."

From his twenty-third year, Nansen had bent his inind and energies upon that great journey into the Polar regions, upon which he did not cmbark, however, until nine years later.

In the meantime, he was appointed curator in the Museum of Comparative Anatomy at the Christiania University.

In the Danish Ceographical Journal for 1885, Mr. Lytzen, Cobonial Manager at Julianshaab, gave an interesting account of certain relies of the ill-fated Jeannette expedition picked up by Lakimos on the west Greenland coast. Among these articles was a list of provisions, signed hy (aptain De Long. a manuseript list of the Jeannette's hoats, a pair of oit-skin breeches marked "Louis Noros." the name of a member of the Jemmetie"s "rew, the peak of a cap with F. C. Lindemann, or Nindemamn, written on it.

It wat phain to l)r. Nansern that these articles had drifted no leos than twenty-nine lumetred miles and in a perion? of
 at current paras acto-s or very near the Pole into the sea betweren (ifernland and spitzheroern. Epon this hypothers 1)r. Nanson urged his phan to take a well-provisioned thip), *built on such principles as to enal)le it to withetamd the presure of ice-- for on thin same drift-iere and ber the
 dition."
ln spite of the mathese of his - chemes. its condemmation by
 America the Xorwegian govermment extement it- patronage
 fifty proturd toward the expern-a of the expertition, the res mainder being cotheeted by private subaription.

The From, right hemelred toms di-mherement. Waz built with wererial atterntion to the constration of the -hatper of


 at finll - pex.l.

The naviqution of the From wat eivern to ('aptain ()fto












Frozen fast in the ice three days later, the frem stood off northerest of saunikof Land in $78^{\circ} 50^{\prime}$ N., $134^{\circ} \mathrm{E}$. It now behooved the company to ship rudder, dean the boilers, and prepare for winter. No idle moments could be epared, rigging must be ared for, sails inspected, provisions of all linds got out from the cases down in the hodd, and handed over to the cook, and the mithy called upon for his offiees in repairing bear traps, hooks, knives, etc.

A busy life is a happer one, and the From's company lived in harmonious good-fellowship and drifted leisurdy with the great icer-pack, juit as Nansen had predicted they woukd, with only oecasional risits from bears to break the monotony of complete inolation.

In December, Nansen, who had read Dr: Kiane's feurful experiences in the Aretic night, with insufficient food for dogs and ment, suffering from the ravages of sermys, compares his (wan condition in the comfortable warm quarter"on beard the From. No ageing or dopressing offects hat heren folt hex any member of his parts. The quict, regular life eremed to agree with them, and with good food, in profusion and varietry, a Warm sielter, plenty of exerefor in the opern aire athd cheerful diversons in the shape of instmetive books and ambsing gathes. the men kept up a whereful batancer of erood health amb pirits. Nexerthelest, the pationer of all on board was -ardy triad before the cruse wats orer.

The drift of the ship during the thirte-five monthe of her
 -heremeded or approached her semb, (encourawed or dix-
 -texilin a remarkable manner threaterned disaterer from the ice presures. Wild enthusiame ereeted therdightest adranee,
 showed swas $1^{\prime}$ north latitude, atem minatas north of the obartations taken the week hefore. Amb a comereponding
depresion is notieed when contrary winds retard or actually foree the Fram to retrace her hard-earned progress.

It is not surprising that Nansen's adronturous spirit grew restive under the enforeed inactivity of the Fram's uncertain drift. Karly in the year $189 . t$ one finds his mind working upon deep-laid plans to foree the iswe with the enemy, and contually he amounced his intentions of attempting one of the most daring and hazardons sedge journers in the annals of Aretio adrenture. His plan was to leave the ship with one companion, adrance over the frozen polar orean, as far as posithe, and without making an effort to rejoin the ship, retreat by way of Framz Josef Land and Spitaberoen, back to Norway: Fobruary 2 $6,189.5$, he officially informed the erew that after his departure, (aptain sverdrup was to be chief offierer of the experdition, with Lieutenant seott-Hansen second in command.
()n the 14 the of Marell, 189.), the From stood in $84^{\circ} 04^{\prime}$ N., $102^{\circ}$ E... and amid a parting sahute with flag, pemnant, and gums, Nansen's therd and final sledge dath to the morth was takern. Johtamesen, who had been chosen as his companion for this arduous undertaking, was in all reeperete qualified for the Work-- an ateomplished snow-shoer "quathed hy few "in his powners of endurance, --a fine fellow physically and mentally:."
(iff ther went, acoompaniod for a short distanoo bereroral of the cerw: Theres sedges drawn hy twont-right doge were lonked with fwo kayaks, and provisions for one lamdred days
 fully confickent that fifty days would ane them at the I'ole. phoned into the manown and mot hratrely the pitiles fore.
 these were the impertiments to prowers.

It wa- Xancon' ruk to mareh nine or ten hours, broken

were a bitter trial to the men exposed to the mereiles wints without fire or shelter, to be followed by the uncomfortable task of disentangling the dogs' traces, before they were able to take up the march again. On March 29 , they were "grinding on, hut very slowly'; the dogs were showing signs of weakening - there was endess disentangling of the hauling ropes.

On April 3 they were making their desperate way over ridges and lanes which had frozen together with rubble on either side. It was impossible to use snow-shoes, there being too little snow between the hummock:. Thick weather, with dereptive mists making all things white, added to their miseries; irrequktrities and hokes and the spaces between, so that the men and (logs stumbled bindly on, crashing into pitfalls and eracks and rumning the grave rikk of broken bones.
()n April 6 the iee grew worse and worse; after an adrance of only four miles Nansen and Johamesen were in despair.

The following day, the limit of patienee was reached a world's record mate - Nansen found himself in $86^{\circ} 13.6^{\prime}$ N., ahout $9.5^{\circ}$ east longitude: a distance of one hundred and twentroone geographical miles from the Fram, with two houndred and thirtr-five mikes between himself and the Pole. Twenty-three days hat paswed ; Namsen and Johannesen turned their batcks upon a veritable chaos of ie e-blocks, stretehing at far as the horizon, and prepared for their retreat to (ape Fligely.
()n this remarkable journey southward, confidently expected hy Nansen to extend over not more than three monthe, but which in reatity lengthened to one homdred and fiftr-three deys, the courage and ability of these men was tested to the utmost. Frightful gates, which disrupted the park, and thick fonsa, which made adrance ahmost impo-sible, added to their diseomforte and prisations. The doge reduced in strenoth from exhatstion and kaek of food, died one hy one or were killed and feal to the survivors. The work of hatulig becamo
heravier and hearier, as their numbere diministere The nern hat the mi-fortune to allow their watrehe to run downs therebe making thedr komgitwde obererations uncertain, the
 in search of the hand, which persiotentir remained hidden.

Early in funce it heceame neces-ary to erurtal the rations. and atthongh ther -tealfathy kent to wedghte, in orker that their remaining provisions wouk let, they were redured, dane 1- (t) at frusal suppere of two manese ateuronic breat and one ounce butter per man - and (rep) into their stecping-bag- homery and exhameted.

The (eapture of a seal redieworl a situation that thereatened to become varyserions. It hast. an duly 2 t, the tired exes of the traterlers rested mon sombething rising abore the newerending white line of the horizon, and the jovful (rey was raisul of "Land! Land!" Prosper to the hather honting-grount Wat (xatperatingly slow and not withont ite starthing arlventures. dohanneren was attacked hy a hear. and without the prompt attion on the pate of Nitnarn womk doubtles. have mosed it- victim.



 raphel appmeath of winter woukd hake the affort to reath


 winter. Bkar-and watra- were plemtimat and -uphtiat thenat with ahmolant fomet: oflow gatme wa- onceationtally -hme




rariation to their existene but the taking of the most necessary meteorological observations.

IVith the return of spring the two "wikd men" made every preparation for their journey to spitabergen. This was no rasy matter, considering they lacked everything, and the few resorro stores of flour and chocolate had mikdewed and sporikel during the winter. On May 19, 1890, the shedges stood leaded and lashed and after leaving inside the lout a short report of their journey and arlventures, Nansen and Johammen started for spitzbergen. Though the winter had hern long and momotonous, adventure greeted them frequently in their artrance. Naneen nearly lost his life by falling into a water-hole. They were deluyed by a gake, during which they nearly lose their kayaks. semen theos frail crafts, with atl they poswesed on board, drifting raphilly away from their monrings, Sansen sprang into the iey water and mate a deqperate attempt at rescue. Meanwhile, Johamesen paced restlesty up and down the ier in an ageny of sumerne. With -t rokes erowing more and more feebte, the swimmer realized the desperate situation and, putting forth his last bemmber onergicsin a final -troke, gratped a show-shoe whel lay acrose the end. All but frozen, Namsen had great liffionlty in getting into the kavak and still more trouble in pathlling to land. Nimb and shivering, the wind biting his very marows he Yot hat courage to fire at two auke which he socured for a W:atm and weldome supper.

In ther meantime their meat was nowly gone. The outhook wat anghang but promising. In these frail, wather-worn,
 hath foet wille and hatrdy more than one and one fourth foret
 mose of has ancumbered he ise. which intervened between them atm sjeithorem. where theif only hoper lay in being taken aboame mo of the small reasls, which visit the enores
every summer. The future for Nansen and Johannesen was indeed dexperate. but a happy ehanee bromeht them timely deliveranee, and the dramatie meeting with Frederiek (i, Jackeon, June 17. 1s90, in the isolated regions of Franz Jowef Land terminated one of the most brilliant retreate in Aretic history.

Mr. Jatkson and his companions. who for two sears had heren making most valuable sedentifie oberrvations and eotleeting specimens in all flepartments of natural seiencer which the islands and surremotings -sat afforded. weleomed thre wanderers with open arms, hought them to the house, fod, and warmed them, and, hest of all, gate them news from home and letters. It was not sumpring that the first night Wat -pent in reading home letters. which , Jateron had faithfully rarried for them into there de-obate rewions, and in talking over the strange adrentures now - happily ended. For at last their work was done, and, as Xethern waid, "he didn't want to sleep, he folt eo happs."

Eo the days pased rapidly matil the Wimpuraid (ame, Which hrought vearly suppliee to Jatkenn and carriod home the ablonturote explorers. They readherl Vardo Haten. Amgunt 18. Ath that wat needed to complete the happinmes of the home-ronning wats news of the formote amb this wat not



-ho hat pur-1ex heq monotmons heit to how highot point








## CHAPTER NXI

Journeys of Dr. A. Bunge and Baron E. von Toll. - Exploration in spitzbergen. - Sir Martin Conway. - Dr. A. (i. Nathorst. Professor J. H. Core - Andrée's balloon expedition to the North Pole.-search for Andrée by Theodor Lerner. - J. stading, Dr. A. (i. Mathorst. - Captain Bade. - Wadter Weiman's plan to deach the Poke from spitzbergen. - Italian expedition under Duke of Abruzzi. - Loss of the Stella Polare.- Captain Umberto ('tgniis jommey - Breaks the record. - Retreat. - Home. . Bahwin-Ziegler expedition of 1900.- Complete equipment. Return of expedition in autumm, - Ziegler expedition under Anthony IFida. - The America reaches high northing. - Winters in Triphtz lay. - Is destroyed. - Failure of sledge journers. Relief ship does not come. -second winter. - Return of party hy Teria Nora in 1903.

The soyage of the Jeannette, among other valuable scientifie results, had proved Wrangell Land to be an istand of moderate size. The drift of the Frem had demonstrated the theory of a pokar ocean of vast dimemsions and great depth. The interest, therefore, in Aretie exploration for the next few Years was eentred in numerous scientifie parties whech thoroughty examinod. surveyed, and explored the unknown sections of hands bertering on the Polar Basin.

Is carly as 1sx. an expedition was fitted out under the
 phaced in chatere of I Or. A. Bumge and Baton E. son Tobll for serentife and geowraphical work in the Silerian Islanc. Toll risited Nox: Siblir and traversed the entire coast of Kotehnoi in the meantime. Dr. Bunge exphored (ireat Liachof, where hereserured a valualle collection of foxils.

Toll returned aquin to the Aretic in 1493 , visiting the northfact of Jana, for the purpose of securing is well-preserved mammoth. Afterward, in company with Lieutemant sechileiko, he again wisited the New siberian Island, and with dog-
 north latitude. estahlishing two depots of provisons for Nimseri': pesible use Among other important resulte of this expedition was the discovery of eridenee that in the mammoth periods trees grew no lose than $33^{\circ}$ north of their present limit. Toll returned to the mainland and followeed the lena, reporting impassable tundres from siatoi Nos to Dudinka, - and reached Yenisedi.k the the of December. Lateremogequal researchere were mate on (ireat Liadhof Ishand.
baron Toll determined upon another movage to the Aretice for the purpowe of supplementing the geological knowledge of Bemett and other inlands and to complete a journey of exploration to simmikof Lamd, first seen by him in 1586 .

The surym was fitted out for this expeditions, and the winter
 longitude.
"(on Aturil 1s, 1901," writes Baron Toll, "immediately : after the Feast of Baster, Lieutemant Kemonierofif and the zoölo-

 and watalioh caraling stations, while the seromel wate diremed
 tant. Two days latere troan my exursion with lioutemam




 :ran : and fi-h here haviel were to complete our supplice.

to dig out the deposit from the deep show. On May 7 , we -tarten from this place in an cast-northeasterly direction,with the intention of pushing on to sta Thatheus Bay on the cast coat of the ('helywisin Peninsula, and returning thence along the coast. After traversing the tundra for forty wersts in this direction, we again came unexpectedly on an intet, which grew narrower towards the west-southwest, where it assumed the form of a narrow sound or river mouth.
"The position as determined he Lieutenant Kolt.chak on the off side of the bay was $76^{\circ} 17^{\prime} \mathrm{N}$. and $99^{\circ} 29^{\prime}$ E."
(m) May 12, the tired dogs were given a day's rest; then Toll made a day's march, half a degree castward, on Comarlian show--hoes. There were no prowects for adding to their limited food supply by hunting, so it became necessary to retrace their steps.
"Ifitherto." writes Toll, "we had to contend with aknent constant difficulties caused bey fog and deep show ahreuty soffened he the sun. But henceforth we had to strugele with contrary show-storms, which kastod ahmost without a break for fourten days. The consequenere was the kose of five dome, which broke fown one after another through exhanstion. (m Max:30, we reached the Sarya, the exemrion having lated forty-ome duse. (f) these we had to pars nine in the slemping--ack thring the fiercest snow-storms: four were uederely wasted at the depot: and during the remaining twentr-ecight day- we coverel ato weret."

Wher exursions were made hy mombers of the parts, with most gratifying resulta.

The redease of the saryen was confidently hemed for canly in luenat. "But in the interim." write Beron Toll. "there
 cover the month of the Tamyer River. A Aeremang the the mat
 the firat or sereme of the larem hight- tying to ther wat of the

Taimyr sound. Both of these were twiee explored by Lieutenant Kolomeizoff, and in the first was, in fact, found the mouth of a considerable stream ; but its eonfiguration was not at afl in accordance with the contour lines given by the topographer Wagenoff on Middendorff's chart. In the second no indication could be detected of any river mouth. As these researeles had been undertaken in winter amid fogs and snowdrifte, there still remained a doubt, which could only be removed by fresh investigations carried out in clear summer weather. Should these also lead to negative results, the only remaining assumption would he that the Taimyt diseharged into that bight which during our journey to the intarior of the (helyowin Peninsula, Lientenant Koltechak and I had erosed, since no considerable stream assuredly entered that other inlet where the depot hay:

The surves of the firet two bays was undertaken by Birulja and Dr. Walter, their exeursion lanting from July 20 to August 15,1901 . "Prespecting the question of the Taimyr, the two sarant- came to negative results. sitill they ronfirmed Kolomeizoff"s discovery of a large estuary in the first of the two hays."
()n the 2.5th of August, the fiseures in the iow had expenterd ;
 amel the drifted in the direction of the clilis of station Lland. slowly he wat earmed through the Fram strait to the open sea.



 -ishted, thee days kater, the east coate of the Taimyr Penin--ula, whthot merting any iere.
". A: we drew mear," writes Tohl. "to the Kow 大iberian


mate sery slow headway. I, therefore, changed the course to the northeast. On september 9th we reached the edge of the pack-ice in $77^{\circ} 9^{\prime} \mathrm{N}$., and $14^{\circ} \mathrm{E}$. Here we encountered it southern gale, which, acting in concert with the marine current, drove the Sarya 30 miles to the northwest. The storm reered round to the west-southwest, and I thought it botter again to make the most of the wind and now direct our course southeastwards for Bennett Island, instead of trying under these circumstances to penetrate into the ice in search of land. On September 11th the imposing headland of Cape Emmat at Bemett Iskand suddenty loomed up before us out of the fog, and presently became again wrapped in fog.
"We had approached to within 12 knots of the island, when our further adrance towards it was barred by a belt fourteen feet thick of impenetrable ice. Here we remained two days in the hope that the ice might shift, but in vain !"

Disappointed in his hopes of reaching Sannikof Land in 1902, Baron Toll succeeded in sheltering the Sarya for a second winter at Nerpichi Bay, Fotehoi Island, $7.5^{\circ} 22^{\prime}$ N.. $137^{-2} 16$ E. The sad disaster which orertook the brave scientists ends a chapter valuable to Arctic achievement.

On June 7, 1902, Baron Toll, accompanied by Seeberg. the astronomer, and two hunters, keft for a geological excursion, and after arduous efforts landed on Bemenet Island, August B, which was found to be a phatean some fiftem humdreel feet in hoieht. Their researches diselosed (ambrian deposits. Ther left the island to return to the whip on Novem!ere \&, 1902, and were never seen again. Brunsneff and Folt hatk, in a relief expedition in 190 f, diseovered a record containing the informatim just stated, but no other traces were found of these courageons men who sacrified their lives in the eatue of science.
dmother scene of activity was centred in spitzhergen. fow eros-ing which in 1896 sir Martin Conway and party reerivel the applause of the work. The following year he
agam returned to contimue his explorations. Dr. A. G. Sahoret firedumaviguted spitzhergen in 1s99, survering and mapping the irregular coust-line with admirable precision. The same year, Profesor J. H. (iore of the United states ('oa-t and (ieodetic surver made pendulum observations in spitzbereren for the determination of the force of gravity in that latitude. Prince Albert of Donaco and party crused along the coast for the purpose of making scientifie observations. So aetive had been the interest in this hitherto unclained archipelago that Ruscia began to arere her rights to owner-hip.

The most unique venture for polar honours was undertaken in 1897 bex salamon August Andrée a swede, and two companions, Mr. Strindberg and Mr. Tratnkel, from Dane I-land north of spitzboreren. Andrée was an ardent apostle of aërial conquest of the Nortle Pole. His balloon, the ()imen, had a cobleal contents of forty-five hundred metres, and the shape of a phere trommating in a sightly conical appendages. The envelope was mate of six hendred pieese of pongere silk, each being from serenteen to dighteen metres kons bey about forty-right remtimetres wide: theos were sown together hy mathine, then subjewted to a procese of "ermonting" with a special ramish. A earefully mathe net

 works, monntod on a frame of chestmut wool, the hottom heme -t realethemed hy womeden eros-aterams, the whole eovered with


Prosi-ioned with tins of proserverl food. - chacolate, erom-


 -im whith it-haman freight, July 11, 14.9.


Machuron. "Few words are exchanged, but hearty hand-(da-p): between those whose hearts are in sympathy say more than words. suddenly Andrée snatches himedf away from the embraces of his friends and takes his place on the wicker bridge of the car, from whence he calls in a firm voice:-
". 'itrintleerg . . . Franaenket . . . Let us go!'
"His two companions at once take their places beside him. Each is armed with a knife for cutting the ropes supporting the grouns of ballast bags. . . . Andrée is always calm, cold, and impassable ; not a trace of emotion is visible, nothing lout an expresion of firm resolution and an indomitable will. He is just the man for such an enterprise, and he is wedl seremed by his two companions. At length the deecisive monent arrives: 'One! Two ! ('ut!' cries Andrée in swedtish. The three sailors obey the order simultancousty, and in one ricond the aërial ship, free and unfettered, rises majestically into apace, saluted bey our heartiest cheers. . . . scattered atomg the shore, we stand motionlese, with full hearts and anxions eyes, gazing at the silcolt horizon. For some moments, then, between two hills we perceive a gray speck ore the sea, very, very, far away, and then it finally di-appears.
"The way to the Pole is clear, no more obstacles to enrommer -- the sea, the iece-fields, and the ['nknown!"

Wut of the (ireat White Northe came a lone survivor, a carrierfierom, hringing the tiding: written "July 1.3th. $12: 30$ p.s., s2 2 2 north latitude, $\left.15^{\circ}\right)^{\prime}$ catt tongitude. (food !ourney fatitaryl. $10^{\circ}$ south. All goos well on hoard. This is the fourth mescage sent by pigeon.
" Andrée."
 ing a mote from André was found in Nomay : it had been theown chat cieht homers after departure.

The "North Pole buoy " to be dropped when the Pole was
pasied, was found empty in september, 1899, on the north side of $\operatorname{sing}$ ( Chates I-kand. A thired bues, also empty, was pieked up on the west watet of Iectand, July $1 \overline{7}, 190(0)$, and another reported from Norway, August 31.1900 . contained a note stating that the hoy was thrown out at 10 p.m., July 11, 1s97, at an altitule of cight humderd and wentry foet, moving north 4.) E. Thus the carrier-pigeon wat the latet mesomger - the hathinger of Andrée's last word to friends on earth; the fate of the there brave stirits he buried in the Aretie silence.

Theodor Lerner wat one of the first to hurry to spitzhergen in 1 s9s lewhing the (erman scimentio expedition, to ohtain nem: from Andrée, if posible, and the same reat the swedish Anthrep)engeical and (icograplicat Socicty sent J. Stadling. with companions, to the Lema deltat the month of the Yemisei and the istands of New siberia, where they searehed in rain for traces of theil miserme compatriotr. Again. in 1599 , 1)r. A. (i. Nathonst turned hi- attention to ca-tern Cireenland in an unsuecroful seareh for tidines of Ambere making valuable maps and observations of the fiom stem of Kine ()ecar Fiond. Nor did ( atpetain Bathe in his: explorations in
 in 1 sho find any tracos of the misoing äronatht.

In the rear $18!+$ Walter Wialhman, all Smericans. Madte Fpitaberem the hase of his atetivitio- in an attempt to pernetate the Polar patek and reath the Nowh P' Ke sailine in
 off Wathen I*tand; undamterk he this grate dixatore her

 homsiat. reathon a peint (atat of Platen latamb. Widhata




headquarters at "Harmsworth House," at ("aper Teget thoff, for three Vears the Aretic home of Frederick A. Jackson and his (ompamions.

In February, 1899, Mr. Wellman, with three companions, started for the Pole with every pronise of success. An moforeseen aceddent to Mr. Wollman, and an upheaval in the ices, which destroyed many dog: and much of their equip)ment. necessitated a hurried return to headequaters. Disapperinted, but not discouraged, Wellman orgenizel a series of important scientifie observations and explorations; during which Evelyn Baldwin, in a long sledge journey to Wilczek Land, determined its castern bomdary, and diseovered, among other islands to the northeast. (iraham Bell Land.

To, that daring and adventurous prince, H. R. H. Laigi Amedeo of sitwoy, the duke of the Abruzzi, is due one of the most interesting chapters in Aretic history. There is charm in the graceful eledication of his hook, "To Her Majresty the (2uern-ALother," as well as in his gallant tribute to his brawe companions. who won kaurels moder his direction and fought \&athantly the dangers of the Aretic under his banner. "Italinns and Norwegians behaved throughout this voyage as thongh the crew were composed of one nationality," he says. - I had comrales with me rather than suborlinates. I experes, therefore my gratitude towards all, sinee to their harnomious cooperation is due the sureese of my expedition, and I "xprese the same gratitude to the memory of the three brate men whe perished whilst on the eledge experdition."

The Josom, having a carreing cappacity of five hundred and - wenty tons cargo, wat purchased by the Duke remamend

 homberd and thirteren pounds storline.
formel in command to the loker of Ahruzai, who by the Waty, W゙\& hut twentr-six rears old at the time of hi- delventure

Wat Captain Comberto ('agni of the Italian Navy, in charge of the sementifie ohservations. Other offieers of the Navy were Lieutenant Franceseo (buerini, in chater of the mineratogical collections, and Dr. Achille ('. Molinelli, medieal officer, atwo in charge of the zoülogical and hotanical collections. Vour othereffieres, a crew of twore, and four expectally experienced guides completed the peremmed of the expertition.

Inder the personal advier and superintendenee of Dr. Nathsen, who aded in erery posible wey the sueress of the expedition, a carefully thought out phan wits mande, ly whed the Stella Polare was to leave Arohangel, carly in July, make for ('ape Flora and Northbook Lstand, astablish a depot provisioned for erght monthes. then procered, take up winter guarters ase far north as pessible flose to the lathds lying weot
 (Stablish at cham of provision (athes on the kands to the north, and in the epring a stedge journes to the north for a wond reeord would be undertaken. I retreat to the depot at ('apor Flora with or without the ship woukd insure subsistenee until the arrisal of a relief ship to loesent in two years, of, if the rether ship faited, a retreat to Nova Zanhta or spitaberwern wombld be undertaken bey boats.
 where one handred and twentrone dog- were daken aboard
 wrighed anction and procereded on her vorage Fon was anmombered, Juty 17 , and there days kater Nomhtorok hamd was -ighted, and at risit mank to Jackionts huts and Ledigh smith = wintor curator.



 nij), Feptember 7 . when she -pramg a trak, amd it hecame
necesoary to disembark her provisions and establish winter quarters on Rudolf Istand.
" As our ship, which we had abandoned after it had been seized by the ice," writes the Duke of Abruzzi, "was the only means of our returning home in the following year, we had to consider how to sare her. Part of the engines, the condenser, and the furnaces were under water, which had frozen to a thickness of about nineteen inches. The ship had not changed her position, but had heeled over still more as the ief which had supported her had given way.
.- The water had first to be pumped out of the ship to enable us: to find the leak on the left side, and this had to be mended as well as that which was visible on the right side; we had then to see if it woukd be possible to keep the ship dry, and if not, to protect the engines so that they might remain under Water during the winter without being injured. Such was the work before us. At that time I did not believe it possible, hut Captain Cagni never despaired for a moment of being able to carry it out, and if it was aceomplished, it was owing to his strong will and to his perseverance, which was never discoumged by any difficulties."

Early in the winter, the Duke of Abruzzi, in one of his shedge excursions, had the misfortune to freme a part of his keft hand, which resulted in the loss of the joints of two of his fingors. This unfortunate aceident prevented his accompanying the spring sledge journey to the north, for which active preparations wore ahready in progress. The shodges and kayaks were patterned after those used by Dr. Niansen : the former ekeven feet fiee inehes long, six inches wide, and six and mo-half inches high, with convex rumers shod with plates of white motal, and were saturated with a mixture of piteh, -rearine, and tallow to render them more slippery and durable.

After careful calculations by Dr. Molinelli, the rations to be carried were estimated at two pounds twelve ounces
nine drams per day for wach man, eonsisting of biscuit, timed meat, permmiean, butter, milk, Liehng's Extract, dericeated regetahles, Italian paste, sugar, eoffere, tea, chocolate, ete.

The first start was made in Feboruary, but after travelling in the extreme cold for several days, the party returned and made a frewh start, Xareh 11. The expeedition was eompored of ten men and thirteen serges, which, with their loads, weighed five hundred and fiftreone pounds each, and was drawn by one houdred and two doge.

It had been previously sotted to send back detachments, after twelve twentr-four, and thirto-six days; the last detarhnent to remain in the fiede -reonty-two days. Cagni, however. modified theere phans, ant in the meantione the Duke of Ahmai anxion-ly wated the return of the first detathment. (On April 1s. the second detarhment retimened to eamp): they had heft ('mmanker' ('aqni, March 31. The first detarhment, monsiting of Liomomant (zuerini, stakken, and Ollier. had started to return Xarch 23). An immendiate seareh was in--titntad for the mis-ing mon, hat without results. After eraer offort had been expented, the there men were given up) for lot. Wrantine the other -rupporting parties hating

 I)r. \onlindli and two romptanion- had sot ont for ('aper










The seren dogs which survived seemed nuch worse; some of then were merely skin and bone. The only part of their outfit they had brought hack that was still capahke of being of any use, was their tent, and this had been mended. The framework of the kayaks had been broken and their canvas torn, so that they coukd not be used unless a week was spent in mending then. The sletges which remained had been mended with pieces of other sledges. All that was left of their cooking utensils was the outer covering of the stove, a saucepan which hat been mendet, and the phates. The Primus kamp had been replaced by a pot, in whieh dog's grease had been burned for the last few weeks. The sleeping-hag harl been thrown away, and only the thick canvas lining kept. Their elothes were in rags."
("agni had advanced under the same trying conditions of hummorky ice, shash, and deep snow that had heen encountereek by Nansen ; he had had the misfortme to freeze one of his fingers, and suffered excruciating pain, necessitating his operating with his own hand and removing the dead mass with a pair of scissors. He had steadily atvanced until April 25, 1900.

His return journey covered sixty days under the most alarming conditions: for on May 18, he writes: "I feel more ant more every day a terrible anxiety with regarl to our fate. After marching nine days toward the southeast, we are nearly on the same meridian," owing to the southwest drift of the ier-pack. Four weeks more of ahmost superhuman effort hrought them to Harly Istand, from which point they made their way to Rudolf Island.

With the achievement of this brithiant recorel it now remained but to free the stello Polare hy hasting and eutting chamels about her shlog epuaters. The briof Aretie summer hatring set in, her cheliveranee at kast wate secourext, and ". It halifpast one in the morning of August 16 , everything was
realys and we steaned showly away from the shore. giving there cheress as we turned round the ice of the bay which hat hekd us - os lone imprianomed."

In contrast to the Italian expedition, the Baldwin-Ziegler Polar experlition, which sailed fron 'Tronsoe, Norway, July 17, 190), stands out conspicuously Mr. Bahdwin was born
 with the Peary expedition of 159:)-1 59 , and hat come ne:n beine one of the ill-fated Andrée bathoon parts. He lated done goorl survice with Writhnan in Franz Jowf Latnd, and now with the unlimited mexns put at his di-posal by the munificences of Mr. Willian Zieqler of New lork, he proposed io concurer the Pole.
"whe flere." wrotr Mr. Bahtwin in Berlure's Mugusim,



 foret. . . . The Frithiof is a Norwergian -ailing-vacol.



Verer hefore in the history of Polar asperlition- wat foml












"The present expedition," wrote Mr. Baldwin, "typifies the spirit of the twenticth century;" and he adde, "No prerious expedition to the north has ever made such comple te arrangenents for the transmission of news back to civilization as that which I have the honor to command."
"The America and the Frithiof left Tromsue, Norway, in July, 1901, for Franz Josef Land, which Baldwin regarded as the beet starting-point for a pobar senture," writes Mr. P. F. M"(irath in the Review of Reviews, July, 1905, "proceeding to Alger Istand, in latitude $80^{\circ} 24^{\prime}$ north, longitude $55^{\circ} 52^{\prime}$ east, where he established his winter quarters. The Frithiof unlowed her stores and proceeded south, learing the America harbored, with the dogs and equipment ashore, portable houses erected, and detail of duties being carried out. The persomel comprised 42 souls, - 17 Amerieans, 6 Russians, and 19 shipmen, mostly Norwegians. (iame was plentiful, and sereral tons of bear and walrus meat were accumulated, the former for the men and the latter for the dogs. With this base beyoml the eighticth parallel, Baldwin intended to push forward with his ship), or over the ice, exploring the adjacent region for uncharted land masses which woukd supply stationatry points, insuring lim against the disarlvantages of an ablvanore across the shifting ice, and from the farthest northof these he would, the next epringe, make his dash acroses the reystal fields for the Poke. In this he would employ about twentr-five men as a vangurd and reserve, the flying rolumm mushing rapidly aheat, and the transport train following with the hestrier supplies. Nemerieally, the party would be strong monell to orereone otherwise serionts ohstateres while the quantity of supplies to be carried be :320 dece ancl 1.5 ponies would pat the possibility of disaster almost out of the ghestion. With this elaborate programme, and the kenowhene that
 northing of $80^{\circ} 33^{\prime}$, Baldwin confirlently anticiputed making the

Pole. And, as in that segment of the Aretic Circle he might find himself, in returning, obliged by ice and currents to head for the (irecentand (edst, which reathes to $8.3^{\circ} 2 \mathbf{7}^{\prime}$, or 180 miles nearer the Pole than his base, he plamed that if he shoukd be swerved west ward by the tides, it woukd be easier to reach that shore. There he would find musk-oxen to cke out his supplies, and journey down the cast coast to where the depot was made by the Belgice for him. But, as often happens in Polar work, Batdwin's hopes were blasted, dissensions rent his party atunder, his dogs perished by the seore, and after it futile attempt to get north, he and his whole party returned to Tromsoe in August, 1902, while the Frithiof, which had saited for Ager Istand a month previous with additional out fits and for news of him, had to retreat, owing to the unbroken ice-pack."

The return of the Baldwin-Zieglere expedition in the autumn of 1902 wats followed by that reorganized by Mr. Ziegler and given to the keadership of MIr. Anthony Fiata of Brooklyn, New York, to be carried ont on practically the sume lines laid out by Mr. Baldwin.

C'aptain Edwin Coffin, of Elgartown, Matsachusette, was (dhenem at navigating offeere and he asembled an Ameriman erew, most of them experieneed whaters of the Fiod staff. Mr. Willian J. Peters, of the (Beological surver and representing the National (eeographice socicty, was chosech an chiof sremetist and seerond in command of the expertition. The reculto of his -ytematic recorls and magnetical ohservations. when in the morth, wore of the highest ratue, and her remdered most efliciont anvice.

Ifter collowting stores and erpuipment, the Americe sailed

 penime and andidomal store were taken ahoard. The ire


longitude, through which the America steamed and blasted her way to Cape Flora, which was reached August 12. A few days later Triphitz Bay was passed, with the "skeletonlike remains of the framework of the tent where lived the brave Abruzzi and his companions, standing out in plain view." The America made the highest northing of a ship under steam in the $W^{\text {Western }}$ Hemisphere, and reached a point, $82^{\circ}$ north latitude; she then returned to Triplitz Bay. Upon landing, Fiala found the Abruzzi cache in excellent condition. "Camp Abruzzi" was established, scientific work at once begun, and preparations commenced for the spring sledge journey to the north.
severe gales struck in early in October, and continued ahmost unremittingly until the last of the month, when they raged with such fury as to threaten the safoty of the ship.

She bravely withstood the terrible ice pressures to which she was subjected until January 2:3, when, during a frightful hurricane, she disappeared from view.

The first week in March a sledging journey was undertaken, comprising twenty-six men, sixteen pony-stedges, and thirteen dog-sledges, but the severity of storms, and the suffering and hardship endured from cold, decided the party to return, and (camp) was reached on Darch 11. Other journeys of short duration were undertaken with similar success. Leaving part of the company at ('amp Abruzzi, Fiala made a retreat to (ape Flora, there to await the promised relief ship which was expeceted early in August. Ifis idea was to renew his Xorth Pole dash the following seasou.

The expectecl ship was eagerly watched for, but as the monthes aped hy one hy one, and the ship did not come, preparations were made for wintering, and the liberal depots of supplies teft hy Jackson, Ahruzzi, and Andrée, were examined and formol in exeellent condition.
"Elmworl," Jacksom's little house, was dug out and
mader hahbtahte. ( ommmmatation wits frequent between


Fiata, in at cold amd damgerous jommer, returned to (imm)
 ney (owited the Pode, to be matelakem with one eompanion,
 defachmentz. Seaman Duffy, who hat aceompanied Fiaka (t) (:ape Batentz in August, 190) and ( amp Florat in Jume of the same reatr, vas chosem as his companion. Ther start W: made in Marel, hot vory slow progres wat make. ifter





 and thandeme mator our feet, searing the doge motil the Whimed ant whimpered in theil tomos. It wate diffocult to
 on. Doept stm and mumerous water-lames, with a high


 Armil 1.






## CHAPTER XXII

()tte swordrup. - Four years voyate of the From. - Journers in Filconere Land. Important (xphoration of Jonem Sound. - I )i-covery of now lank. - Release of the From. Captain Roaht
 Buy (Fiag William Lamb. - Two yare stay - Tahable sei-
 - Retrear from the ift. - Augut 1\&. 190日.-- Completion of the Nomine Pascage - Another Aretie winter. - Sledge journey of Ammaken to Ragle ("ity. - Release of the (ijous. Rearhes Fin Francioco, 1907.
1.) the (reographical Jommul of November, 1902, Sir Cloments R. Markham, Preeident of the Royal Geoorapheal sucfoty of London, commenting on the remarkable achievoment of ()tto šroctloup and his galkent (omp)emions during four trabe ling samons entating four . Dretice winters, expreses himsedf as follows:-



 wht the comste of Jomes sound; they hate reached a point
 (exel that lant nowth of the Pamy I-tancts. the ext-temer of wheth wa rongedured, as far west at the lomeitude of the




 $1: 3 ;$
of the ice, the existence of eoal-beds, and the abundance of animal life. I systematie surver has been made of these important discoveries, checked by astronomical observations."
"We must look forward," concludes Markliam, "to an aecount of these things, and to the details of the expedition, with the deepest interest ; and meanwhile we may well express arlmiration for the way in which the work was coneerved and exeruted, and at the perfect hamony with which all loyally worked under their chief. Without such harmonious work, suceess was not possible."

The Norweqian, ()tto Neumam , rerelrup), wa hom in Bindalen, in Helgeland, in 18.5.). It arrontern vears of age he went to sea, passed his mate ${ }^{\circ}$ examimation in 1sts, and for some years was captain of a ship. Ho aecompanied Nionsen
 the Frem on Natnsen 's famous Polar vorace. I few days after the return of this expedition in comtember, 1 ᄃ!日, while the From wat lying in Lysaker Bay. Dr. Nancen came aboard one moming.
"Do you still wish to go on another expedition to the north!" he arked swerdrup.
"I es, certatinly, if only I had the chance." come the mompt reply.

 finance and ("quip) another serentific Polar experdition. With


The From wat loment be the Vorwerian erovernment, and







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zoölogist，a grarluate of the University of Copenhagen，the latter a member of Lieutenant Liyder＇s expedition to the east coast of（ireenland in 1891.

The Fram was ready for sea，June 24，1898，and left her moorings with the quay packed with people and the fiord covered with small craft＂which had come to see the last of us and wish us a safe return home．＂
（＂aptain Sverdrup＇s original plan was to push through Komedy and Robeson chamels and as far along the north coast of（ireenland as possible before seeking winter quarters． The unfavourable seasons of 1898－1899 prevented him from carrying out his intentions，and he fortunately turned his attention to Jones sound，which led to the completion of the most important Aretic work yet remaining；＂namely，the discovery of what was hitherto unknown in the wide gap botween Prince Patrick Island and Aldrich＇s farthest．＂

Frustrated in his attempt to enter Kane Basin，Srerdrup wintered in Rice Strait，west of（ape sabine．Immediate preparations were made for passing the cold season，and scien－ tific observations and exploring trips occupied the aut umn．

In deseribing the sum sinking out of sight，Sunday；October 16,1898 ，Sverdrup says ：－
＂We were looking at the sun for the last time that year． It p pale lioht lay dying over the＇inland ice＇；its．disk，light red，wats feilet on the horizon ：it was like a day in the land of the dead．All light was so hopelesely eohl，all life so far away． Westood and watchonl it until it sank：then ererything became so still it made one shudder－as if the Amighty had deserted us，and shat the Cates of Hearen．The light died awny acrose the mountain＊，and slowly vanished．while orer us crep）the great charlos of the polar night，the night that kills all life． I thank that each of wa，as we stood there，felt his heart swell within him．Never hefore had we experienced homesickness likn this－anl little was sail when we continum on one way．
. . Hore cane lianklin, with athurderl and thirty-right
 Hemerane (imedy, with five and twentymen: six returned. . . . Widl! there lay the Fiotio, stout and defiant, like a litthe fatry-honese, in the millit of the potar night. It wat warm an! hright in hore calsins, ant we worked with a will from mombing to nistat.

Fledge jommers, including a visit to the Wimemorl, Limitonant Peary's shiph, and a perconal intorviow with the exphore himstif visits to the From hy motahouring Ekimos and a thilliant joumey arross Ellesmere Land, oferuped mem-

 Indepertanere Day of Normay.




 making dimner. "The doevore -aill he fitt meth bettor,"


 won! ! mot kot mo take !im ont boatel. men fhat wa hatl all










goonl-hy to one another, little thinking what was about to happen.

Four clays kater the absent party returned. "To our ereat sorrow we found the doctor dead."
()n June 16. 1899, (aptain siverdrup made the entry in his journal : -
*The hay is flying at half mast from the pole to-lay. It is the first time it has been in this po-ition on board the From, let us hepe it will inctered be the kast."

The interesting journey across the "inkand ice" of Ellesmere Land, hes Isachen and Braskerud was makertaken Xay 2:3, $14!9$, with foul for thirty dars, and instruments and equip)118ent: a total woight of right handerd and serentrotwo
 doge. (hoosing a route to the weed ward, Isachsen writes in his report:--
"About midnight on Jume 2, we saw from the high eround to the borthrest the first sight of what. later, prosed the west conest. It wats a fort-arm, whel cont into the land in an cat(ely direction from the larerer ford lying ahmost due nowth ant -ronth. Trom the outer part of this fort-arm at watn of momontans of equal heights ran in a southeasterty direction. Viatrex. and in front of this chain, wate a wide hevel wate --.
 (1) the momatate. In ons part only of the chatin was a frasWhe of of wheme to he seren hanging orer the upper part of the menntain selfe. In the southeest the waste abutere immeWhately on t! 1 - inland iore.







Having encamped, the two men rambled over a considerable area in the vicinity; finding lusuriant vegretation wherrever there was bare land. At a di-tance enne ten or elecern miles in a northwesterly direction, there wa- no "inland ice" west of the northermost glaciers previouty mentionel. After contimuing their explorations for several days, they were foreced toreturn threngh eontinued harl wrather. foge and gales. (on Junce 22, the thirtieth clay siner keatine the ship, - the food supply remaining wa- reflecell to ahent fifty biscuite, ten and a half tabletso of compresecel hentils. abnout four pormes of permmican, enough eoffoe for twice six whele rommes. or reventy-two rations, of dog-fook and a hadf gallon of petrolome After a delay of six dar* ley the indement weather and a -low and difficult progrese to, the top of Ledfert (ilacior, it wa- with joy that a reliof parte from the ship were met with, and "the following day we dreve down Leffert (ilacier.
 at five in the morning.
()n Angur t, the conditions herine more farourable than herefofore ('aptain serertrup) (enkavomed to naviqute the From thromel Kian Batin. In Payer Harker an American -tremmer was rishterl. erome northeat. To the jos of all. the -temerer signalled she had letters on bourd for the Norwequat










the abandomment of the plan to trace the northern extremity of (ireenland, that sverdrup transferred his base to the fiords of the north coast of Jones sound. Securing no less than thirty-three walrus for dog-food, the Fram established the second winter quarters at Havnefjord in $96^{\circ} 29^{\prime}$ N.. $84^{\circ} 25^{\prime \prime} \mathrm{W}$. (iams and seals were found in plenty during the autumn, also musk-oxen, hares, and reindeer. Most sucees,ful scientifie researches were promoted, sledging parties contimued explorations, and the only event to mar a happy autumn Was the death of Braskerud. He had had a very bad eokl, Wat ill a fortnight with a cough and had great difficulty in breathing, but hat suffered no pain ; there was no doctor, and nothing could be done to relieve him; he had kept his bed the last three days of his illness, and no one dreamed the end was so near.

Preparations for the "grand sledge journey" of the spring kept the men busy during the winter and early in the seaton Learlsenh, Bay, schei, and stotz, rach man with a full koad, went to examine the outlying depots placed the previous fall. At Bjönchorg, the ravages of hears hat caused loss of food and damaged equipment, and this serious menace to the sucrese of the future journeys deeded captain swerdrup to plate a watehman at this lonely and isolated spot. Bay the zoritogist, voluntecred for the duty and was appointed "C'mmmantant of Björneborg."
"()n March $\quad$," writes Sropdrup, "Fosheim and I started Wret in company with the newty appointed commandent. I little after twe tye the following day we armed at the bote honce. . . . Ifter finishing our work we had dimner. wheh Wits as shataining as it was eplemelish, and ronsisterl of boileal


 nexaly the whole day to incerease the pates. Wir reathed

Bjometrorg in the evening, where we found our new depot in swous order.

- Next day we set to work on the erection of the ('ommambant's residence. Wra built a very respectable howe Like other mesebences of the kind, 'Biarneborg' must hate it - flag. we thought, and at wo wore in poseresion of a flay-talf, wheds, comsteming our diemum-tances, wat irrepromblable, we serared it to the root. amd ran up a 17 th of May flag. But our (ommamolant wate eoonomicah, ant

 duringe the first part of the time whithout so much as a tiving beme for company : atterwatto be hatlagarion consisting of a whole watehthog. During ath this long period I nerer - - WW him out of -phirit $<$."

The following day. sivedrup) and Forheim mate an examination of the iere, which in the fores wat rugerd and homsmocky. Ljom the return of the ship it was deveded that
















The ' (Freat Experlition," upon whieh en much thought and care had been experded, was ready to start, March 20 , 1900 . "The weather was beautiful," writesserdrup, "and we drexe ont throngh the sound, east of Akeia, at a smart pace, taking, when south of it, a line direet for south (ape."
()n this journey in which stordrup and Fosthein traced the West thore of Ellemere Land to $80^{\circ}$ 50' N.. a serions, yet annume. incident occurred. ". It certain places on our way," writes, crerdrup, "we came across huge rocks, some of which were as big ets a cottage, and round thern the show had drifted to such a lecight that we could only just see the top. When we came nearer, we found that, as a rule, the wind had holbwerl out a large empty space between the drift, and we were oftern met by a yaming pitfall twelve to eighteen feet in depth.

I should mention that we were obliged to drive above the rooks, as below was the opern sea. . . It one hatppenerd that, juint as we were passing a rock of this kind, a gep oremered between my stedere and the one following it. Is -onen as I hereame aware of this, I pulled up) : but almost before I knew what wa- taking place, the dogs had made their ustal frantic rush to ceteh up), and the slenfere, men, and team were pureipitated into the hole twelve fere below. A moment afterwarlo, lefore anythinge coukl be clone to prevent it, the nuest Ferge (anne tearing up) and fell into the hole, and on the herd of number two came a thirel. which followed theme exatmone. . . In the grave hay pell-madl tharee men, dightem








they, too, were alive. Is soon as we had hauled them all up, wereet to work to shovel part of the drift away so that we could (trag up the loads. The first stedge, which, after much toit. we suceeredel in bringing up, strange to say, was whote, nor W:t there anything wrong with number two, while number three wat as intact as the two former. The very astonishing result of this flight through the air was, therefore, that not a limb. nor a lashing, nor bit of wood wat broken."

While the travellers were in the fied pursuing their perilons and weding arlventures, the Commandant at Björnebores Wats leading a boncly and monotonous lifo awating his chance to amihilate marauding Bruins. His first call to arms came soon after ('aptain sererdrup)'s departure. Late one night, whike half astere), the (ommandant, at that time without a garrison, thought he heard a faint somed in the depot. "I only turned roumb in the bag," he says. "and inwardly eursed Hasclls doge, which were loree again and ransarking the depot. I wat on the peint of falling astenp) once more, when it hegan to dawn on me that my reaeming !ad been wrong, for there wore no doge within many mikes and therewith I heard at reash, which seremed to make the earth tremble. I moment hater I was out of the hag. hat draserd my gem from its cover, and corked it, for it suddents oremred to me that my gruet was a serions ons. Ther first thing I did was to light the kann), after whith I hegan to mose away some tins I haw put in front of the doner, that night for the firet time.
 fut, int mosing the kat tin, I hatpuemedt to make at tight nos-s. ant thon overything berame as still : Weath. I raisent the

 ant for the work beforr nes.
"Ther har", meanmate, hatl mathe itaht quite at homes. In




empty boxes out of its way, and had thrown down one of the dog-food boxes which had been placed on the cases of blubber. The marks of all its claws were clearly visible in the tin. The other box was open, and the bear had tasted a couple of rations, but had evidently net found them to his liking, for he had spat them out again into the box. It had then very carefully lifted the $t$ in down on to the snow, and then - also very care-fully-- raised the lid of the blubber box. But just as it Wat going to begin its meal, it had evidently heard my clatter inside the lint, and had sat down to listen, with its right paw clatping the edge of the box. It was in this position at any rate that I found it, when I raised myself up, after ereeping out. The bear was about fifteen yarls away from me, and as soon as it saw me rose, larere, and fat and hissing; it made the open tin rattle as it put its left paw fown on it. It looked just as if it were thumping the tahle, to show what a fine fellow it was, and reminded me of one of my friends on board so mulle so that I half unwittingly addresed it in the way usual between us ; a manner, howerer, hardly fit for publication. Whether the bear felt offended at this I know not, but certain it is that it got up and watked, growling, with long measured steps romed the depot. I aimed, and shot it in the shoulder: I could just diseern the sights through the darknes.."
"Ther bear uttered such a loud grow," continues the Commandent, " that it seemed to make the stillnese ring. The fire from my gun hatd dazzled me, and I could no longer see the sights, and the bear itself I only saw at a shapelese nata-s, which seremed to have grown most inceredibly larger. Therother hared, therematl-ahot barrel, which was loarted with a large ball. I fired straight into the mas- without geme through aty *uch formality as aming. Then I made a woll-ombered pereat betand the lat, and pat in some fresh cartrideres. I wo not much helieve in hurremge hat I disl this in lase time than it take-totoll. To my great atomithment I dicl not ace
ancthone - not that I wantol to wist memy during this
 ather it, :homeh at fir-t without -ucoros. It late on hernting
 awse at a - pot where I knew there wat no rock. - this. of










 mam!







 ©1 - 1 ...|




suppored to be the realse of the conflagration. The lose of porafin-prepared kayaks, a quantity of skis, and wool amb othere vatuathes were eonsumed, that the chied danger, which thereatered the safety of the ship and ath on boarel, was the mosimity of the fire to an iron tank contaming fifty wathon of -phitit ; se great was the heat of the fire that, thomgh the tank held, the timning on the outaite was formel melted.
$)_{\text {it }}$ duquit 9, after a summer of sueces-ful researeh, the (a)nditions hemg fatourable, ('aptain sivertrup) (lecirled to
 all went well," le writes; "bout farther out, ast of the rocks. worntered the ires, and lay there rammine the whole dey lones. Whemerer we got a chanes we forged on fuall speed aheat ; aml when perfore we came to a stamd-till. we hateded to ene t -n impente, and gave another ram." skinting the coast, the Fiom phathed her diffimult course to within about a mile and a hali from Xorth I (xon, where on september 3. 19000 the ship wor made mady for her thim winter in the Aretic. ()n thes 15h. a tomm lisupterl the patck, and quick atetion on the part















hare on guard sumbenty took alarm and, starting up, ran widly round her flock, striking her hind legs on the ground till it fairly resounded. then retting off at a hrisk pace orer the ridge of a hill. the others following in a long line and presently dixappearing.

It a short distance two otherse eridently not helonging to the other lot, remained by themechers. "I thought," writes svertrup, " it would be interesting to go acrose to them if por-ible, and see what they were about, hat realized I must make use of other tateties if I wond approath near them. This, I thought, was a fitting moment to impersonate a reindeer. or some bether kind of hige gemes and I made a raliant attempt to simulate their grazing nowement- backwark and forwark on the sward. . . . My tactic- were so sureeseful that, in the ent, I was not much more thath two or thitere yards away from them. It was quite torething to see these great imnorent Aretic hares sitting only a fow paces off. guietly enawine roots. The only notioe they voucheaforl me wes an orearionad shift in my direction.
" I stayed hong fraternizing with the hares down on the erase. athel at lant we dide not mind (ath othere in the very leate Thes went on with their ocerpationse phite mewnermedty: I with mine. I felt -romething likr hdam in I'aratior hefore Fove same, and all that aboust therernemt hatpernel."
 ant, the winter set in with plenty of work to lo for exory



 athed exeftement to the winter. and vatome metherk were trimed in their (:athture.





('ourlesil of l) mulledu!!. I'u!fe alul ('i).
as its junction with Cireely Fjord, but another year remained before the Norwegian standard was carried to $81^{\circ} 3 \overline{3}^{\prime} \mathrm{N}$. , $92^{\circ}$ W., where it was raised, May 13, 1902, and the outline of coast completed to Aldrich's farthest.

Javing made one of the most brilliant records in Aretice history, the members of the Fram's second polar expedition turned toward their native land, and on dugust 6, 1902, the From began her triumphant retreat from the Cireat White North.
"Homeward! What a strange ring in the simple word!" crics Captain Sverdrup. "On our long and laborious stedge journeys we had many a time used it when we thought of the From, and a good home the Fram had been these four years. Warm and strong and well provided, but that was in another Way: Now the longing for home coursed through our hood, and all the yearning, which we had thrust aside during these fong years, broke loose, rang in our rars, and mate our hearts beat farter. Half-forgoten memories and dawning hopes eame back again. A sea of thoughts streamed in on has and fied our tongues in the midst of the joy at going home. It wis a moment full of promise when we knew that we were booking for the last time on these mountains and fords, which for so long had been the object and ereme of our endeavor."

Foptember 26, the Froth reached (hristiansand, and two days later she dropped anchor for a few hours at Langorunden, off Horten. Quito a fleet of steamers and sailine-hooits wentem her from stavanger to (hristiania, which wis rewhed "on a heatutiful sumblay whish recatled to we the day forme rears since, when we had gone the other way." . . . "Si) the Fram": second polar experdition wate at an emel." condelutes (aptain seredrup). "An approximate atea of one hemberd thencand equate mikes had been explonert, amd, in the name of the Norwesten King, taken posesesion of. If the nembers of the expertition have beren able to do ctmything:
this is owing in the first instance to the sacrifies of generous Norwegians; that we have not done more is, at any rate, not owing to want of will."

The suceeseful navigation of the long-sought Northwest Pas-age by (aptain Roak Ammotsin hat been one of the stimeng events of the early twention contury. ()f this hardy Noricman, and what he arcomplished, Mr. Algor gives an intreresting account in P'utnem's Mergazine:--
"Born Juty 16, 1872, at Borge, in the distriet of smathenene, southern Norway, he comes from an ohl sea-faring family, and has hat mach experience ats a sator. Sos an offiecer he took part in the Bedqian sonth $\mathrm{I}^{\prime}$ olde experdition of 1897 , on boarel the Bedgied, and it was down in the Antaretie regions that he first planned his famous dretic vosage On the Whater, Cijore, a shipe of only 46 toms, he loft (hristiania in
 in the summer of 1900 , the news was spread over the word that he hatd aceomplished what no man before him had sueereded in domg. Ile had not only eallent through the Northwest Passame, but had located the Magmete Poke and otherwise wathered much scomtifie infomation of the greatest vatue in recard to these littheknown regions."
 out. She wits amply provisioned for five rants, and here erew
 (iodfeed llamem of the Danish Natry, Ïrat mato Suto Land of 'Tomene hat hat hong years of servier in the seding trade.



 valdonc, hat he died on the trip tron pmednomi: , in Mareh,



Suiling at midnight, June 16, 1903, from ('hristiania, Cape Farewell, (irecoland was sighted five wedk hater. Freming ten fine dog* at Godtaven from I Ierr Dongath Jensen, Inspector for North Greenland, they entered Melville Bay, August 8 . (\%n August 15, ther came in sight of Dahrymple Rook; at this point two reotch whaling captains - Milnc and diams- - had deposited certain stores for Amundsen. The (ijom was unexpectedly met in kayaks by member: of the Danish Literary (ireenland expedition, Herr Mytius Friksen and Herr Kinnt Rasmusem. In exehange of rourtesiow was followed by the louding of the figon with the packases from Dalrymple Rock. Pushing theroug the lanes, at full steam, they emerged into open water in Baffin Bays, and later entered Lancaster sommd, anchoring at Becehery, An-
 officioney of the compass now ceased, and they were compedted to maviqute be the stars whenever they appeared through the foge, which prevailed most of the time. Pasing along the west const of l3oothia Felix, they eame to grief low gromding on semtember 1 :and were obliged to "lighten the ship he theowing orerthoard the greater part of the derk cargo). ()n satmotay, Soptember 12, entered (ijoa Harther"-a amahl landlocked sove at the head of Petersen 13ay (King William 1.and), and here they remained for newthe (wo years.

Immeriate preparations were made for wintering. prorisions kanted, observatories erected, and Ammendem at onden herean his valmable seromiffe observatimes.


 sand entively frem of any iron, heat, or exen light, exeept the




कheck- on those photographically ohtained. The observers in this work were clothed antirely in dereking garmente, and befoe entering the lonikling where the magnetometres were intalled. carefully divered themberles of watches, kers. knivore and othere metallice objecotc. The oherervations were hatal in winter under such conditions of cold. monotony and
 sund whet:ancr." . And he continum. . Ther value of the exm-
 hes similar ohservation- in tha fielu. whele noeresarily entailed

 the purpore of atablishine fonl depots. involved much -ufforing owing to exocoive cold. the temperature fatling to
 Pole itcelf was malle lys Ammbern and liotreelt. starting
 rablitur from rough iet.
 Harlme and Tammaniz I-lamb, whinh aro ahorat righty milua





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Frequent visits from Eskimos, and the news of American fishermen to the south, permitted of letters being forwarded by Eskimos.

On August 14, 1906, all conditions being farourable, the (ijout weighed anchor and proceeded westward in open water, and within a few hours had successfully based through Etta sound, the narrowest place in the Northwest Passage, a tortuous channel between Etta lsland and the mainland. The following day they threaded their way through a group of nowly discovered islands in shallows that constantly necessitated the use of the lead.

A heary pack was encountered in Victoria Strait, but they continued on their way "through the strait between Victoria Land and the mainland," thence through "Dease strait and Coronation Gulf out into Dolphin and C"nion straits, and on the morning of August 25 sighted Xelson Head - a tall and imposing headtand."

Having suceessfully passed from the Atlantic side into the Parific side, the Cijoe had the good fortune to speak on the same day the American whaling schooner, Charles II ansson, from sian Francisco. A delay of twenty-four hours was callsed by the ice off Cape Bathurst. Near Bathey I-land, *Tral beset whaters were encountered, and the barks Aleaconder and Bowhead were sighted off Pullen I wand.

C'ape subine was reacherd september 2 -- but progresis wat only made to King Point, abont thirty-five miles cate of If wemel I land, where the Gijoa was fored to put in another Aretic winter.
()n() etober 13. Amundsen, with a sledge and five dows made at journey of five monthe' duration. covering at di-tance of fiftem humdred mike to Eage (ity, Alaka. This inchuded a
 fowsarded, and mails resedred, for himself and ower mombers of the expedition.

The following Augut, the (igue was freed, but on the 190 h of that month the receised at hat injure to her propelter bey
 under sail. She arrived at sian Franciseo, ()etober 19, with rimb cargo of othmowraphical, zö̈logical. and bexamical aperimens, and mans furs and curber. There were freighted on (hristiania, the Cigon taken chatere of bey . Whairal Lemo
 and his companions started by rail for home.

## CHAPTER XNIII

Pobert 1:. Peary. - The man. - First wisit to the Aretic, 1886. ()thor jowmots, 1ヵ31. - Independence Juy, Greemband. - Dis-
 1ऽ9:3 1 (9.j. - 1)iscorery of funtous "Iron diountain." - Summer
 ouly divabled ly frost-bites. - Polar expedition in s.s. Rooserelt, 190.5-1906. - Final dath for the Pole, 1905.

Fork nearly a quarter of a century the name of Rober: Eitwin Prary has heren choedy identifed with Aretic work. Noman in the history of explonation has remewed his attacks mpon the imparable hatriers of the (ireut White Nopth with -wh porseremace. enduranere, and detemmations. Again

 most -athenine hopes of the arerage math. he hat persisted
 batly thr di-hearteming fight, come back to receive the polite indifieromer or enthnsia-tic prater of his countrymen.
 bis materprize, and when this wa- hanes. faced to the north and baxel again herond the Aretic ("erele.






 $1 . \therefore 1$
the seat and the wookls，loving the wild roar of the ocean as it beat upon the rocky abast，or the gentle summer winds whispering amid the northern pines．

Hedoved to roam，to explore，to find adventure，and to lead others to it，and in his sehoolboy days he was noted for his athetio tastes and powers of endurance．It twenter－one years of age he completed his eollege life at Bowdoin，gratu－ ating seeond in a clats of fifty－one，and four years later hat paseed the examinations which made lim（ivil Enginere in the C Enitedstates Nary．From duty in Florida he was trans－ forred to the Nicaragua（anal zone，where he remained en－ gated in the Interoecan Ship－canal surver from 1Sかt to 18ぶ）．

He returned mater govermment order－to Washington in the fall of that rear，and during a leforere hour，in an ohd book－ store，he acedentably（ame upon a papere on the Inkand I ee of （ireenland．Remembering the adventures of Dr．Kiane which had thoillod hime as a boy，and realing the experiences of Nortenskjöld，jensen，and the rest．Ieary felt he must know for limself what was the truth of this great mysterious in－ terior．

Thus serty had the seed of ambition to explore the land of the mysterious north werminated in his atetion mind．

The following year he reeeised permiscion from the Depart－ ment for leate of abobere to make al perommosathere of the

 nativer．Peary examined the conta and forde．pernetrated the iulame iore and vivited amone wher interesting soots the

 fracmonte of trexs，hack petrifactions with the eram of the wosel and the tostaro of the hatk thowing clearla．Pieres




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creery tinies veinlet and minate serratum of the edges distinct as the lines of a seed engraving; long, slender, paralledreined leaves and exprisite feathery forms."

Full of enthusiasm for further adventure in the land of deselation, where the wild vivid poppe flourishes in sheltered nowle, near eternal glaciers; where a lifeless desert of prorpetual show, from five thousand to ten thousand fere alone the level of the seat, extends over an area of some twelve humadred miles in length and five hundred in wilth, - a phistening shroud, - covering the mighty rock of ages, the buried summits of high mountains thousands of fert lefow, - Peary returned to the Tonited states and in a newspaper article attracted the attention of the Philalelphia . Aculemy of Natural siciences. which offered to defray part of the expense of his eerond experlition.

Paury left, June 6, 1891, in the Kite, and with his party, including Mrs. Peary; Langdon (iibom, ornithologist and hunter; Dr. Frederick A. ('ook, surgeon; Eivind A-trup). a Norwegian: John XI. Verhoeff, minerahogist and metoneolngist ; and Watthew Henson, a colourel man. landen! at MI' (onmick Bay in August. In unfortunate acoilent abomed the Kite, which resulted in a broken leg. caused Peary disappointment and delay in carring out his autum phans. Hosecere, "Red (liff House" was erected, commanicatimes with the natives establi-hed, and such work cample on :a Pearys unfortunate condition would permit. In Ipriala? Peary, being fully restored to health, left Red (Cliff limmonal explomed luglefield ciulf: his next move wat to cotabli-h
 the ice-(:ap).

 equipment. I -upporting papty advancol with Peary on : moint ahout one homitred mile from Ir'ommelkas. The
exptorer, with one companion, Astrup, procecoded over the great ice at anderation of abont tive thonsand foet, and hy May 31 looked down into Petemman Fionet. "Hore," says Peary, "we were on the ire-thluff formine the limit of the great ghacier berin, just as we had been at Itumbeldt, but a trifle leses fortumate here than at Humbobdt. I fommed it necessatry to deflect semme ten miles to the eastward, to atobld the inergualities of the ghacer hasin, and the great revasses which cut the ice-l, luffe encireling it ."

Pearys object now was to make the east coast of (ireen-



 Naty ('liff reveaterl a magnifiernt panomama of rugered, majestic. ierefree romintry to fla moth, abd the browl exbather of the East (irecmband (beran.
strange it somed that in this remote combtry in shedtomed nook: the flowers hbomed: the ham of hexes the drone of



 with abomlant meat.






 hapmy rathon wa- maine to liad (lill Homsa.
 the the wreat twor
northern extension and insularity of (ireenkand; made the diseferery of detarthel ice-free land-masses of less extent to the northward, and established the rapid convergence of the Grecnland thores above the 78 th parallel. It also inchuded the discovery of Melville Land and ITeilprin Land, and the aceumulation of most valuable scientifie data, besides laying the foundation for Peary's comprehensive study of the (ireentand Hightanders, or native Eskimo.

Immediately upon his return to the Cnited states, Peary devoted his energies to a lecture tour from which he hoped to derive the necessary funds to promote a more extended exploration of Northeast Crecnland.
(iranted three years' leave of absence by the Hon. B. F. Traes, secretary of the Nary, the North creenland expedition of 189:3-1894 sailed in the Falcon, Jme, 189:3, and entered the mouth of Bowdoin Bay, in Inglefield (iulf, August 3.

Here a honse was rapidly construeted, stores landed, the Foleoin making a briof trip after the winter supply of meat, with atop) at Life-Boat (ove, where a visit wias made to the sito of Potaris IIouse. A few relies were picked up hearing the stanp of the Enited States Savy-yard at Washington, dated $18(5.5$ to 1870 . The 20 th of Iugust, after her return to the station at Bowdoin Bay, the Fatcon steamed south, learing the little group of fourteen persons, including, anong others, Mr. and Mrs, Peary, Mr. Ammel J. Entrikin, Eivind Astrup. Dr. Edward E. Vineent, Mr. L. B. Bahdwin, Mrs. susan I. ( F (ess, and the coboured man. Matthew Ifenson.
 "smow haby" was born. little blue-evol Tarie Dhnighito leary, and "homiled deep) in soft, warm Aretio furs, and Wratppert in the stars and stripes.

In early Xiareh. Ls? the that preparations were completed
 lane Ire-rap. On the 6th of the month, accompanied hy
fight mem, twelve sedges, and ninety-two dogs, Peary ascemberl the Inkand Iee. The adranere of such a caravan was show and heatry. The dogs of the various teans, hemg mate(whetomed to one another, were constant fe fighting ; the penetratinge cold mipped with frost-hites the hathes and fere of his ment, - w that after an adrance of ome humberd and thirty-forer milses at an elevation of five thousand five hundred feet. Peary determined at the end of thirteen days to cache sumplus stores, semed bark the majority of his mem, and prorecei with there men akone. But the eonditions of cold and stomes were too adverse for haman endurance, the thermomfoter reaching at low at - $60^{\circ}$. The dogs were redueced to a most pitiathle condition, many dying from exposure. ()n April 10, having advanced only about eighty-five miles. Peary decided it was inadrisable to attempt to procerd amb propared for his return to Bowdoin Bay

Whandoning and cathing all umecersary impedimenta, with only twenty-six dogs remaming out of the orivinell mumbetp, the party pached the station in at moth enfeebled and redicood-tate.

Thomel temporarily defeated in the main ofyene of his
 the famonr " Tron Mountain" of Madville Bay, first montiomed
 lath donol for himeolf, a visit to that intereatines epot was

 fromat tle -poot.




The latt of Jaly. the Foulcom, with a party of sementi-ts





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ANNIVERSARY LODGE CROSS SECTION



Drother, Emil Diefitoch, ancloorel in M'Cormick Bay. After as erjoum in mosthern watere, it recurnecl to the [ineted Ftateo, carrying on board the entir" Peary party, with the exerption of the indomitable leader and two companions, Lee and Henton. Pearys resourco were limited; food and fued were reduced oo at to menace future activities, and the visit of a redief aim) in the summer of has depended practically upon MIr. Prarys sole exertions. Newerthelw. Peary determined to remain, and, immediatry contiting the native to a-i-t hims, he drew on the comentry for his - mandim.

The fall wat ocerupiod in the chate after reduleer and Arctic late fore hanan food, and wamb moat for the dog-: and later an exanination and rehabilitaton of the nearer caclues of provisione left on the Inland Iere



 nation, and the -ix sholere with their dog teame, -tartend neorthward.

Thar fiemese stome of winter heal whlateratem the marked














march to lndependence Bay. Then down the tortuous vallers, acrow rocks, coblde, and boukder, the men plunged on. "A fer miles begom the valley, I saw it fresh hare track," ratys Peary, "and a few hundred Jards bexond came upon the hare itself, shuating imong the rocks a few paces distant. With the sight of the beautiful spotless little mimal, the feelfing of emptincos in the region of my stomach increased. I (catien to Matt, who was some little distance back, to stop the (hese and come up) with his rifle. He was so affected be the prowect of a goods supper, his first and second bullets mised the mark, but at the third the white onject collapsed into a shapelese mats, and on the instant gaunt hunger leapt upon us like at wolf upon its prey. . . . It wats the first full meal we had hat -ince the Lakimos left us thirty-five days ago."

Later mush-ox fell to the hunter's aim, which restored conurage and atrength to the dequerate men. They readowl the saim which Peary had erected in 1892, and found the paper- there still intact. To linger in the ricinity meant a constant comsumption of food for which they were not prepared. Them wa- yot the long journey back orer the dreal iree-at), cieht thomsand foet ahove the level of the sea. With ninu dow, and food for seventeen days only, they retraceld their stops, illoring in foreed marehes, from that ever presen: gaunt form, starvation, chorimg upen their wake.
(bue hey one the faithful dese diad bey the wayside. This retreat ower the fireat Iere is one of the most deepereato

 lewimain of the lat day there wore loft four hionits, savel from the half and guarter rations of the preaceling werk: atal one dow was still alive, the sole survior of a pack of fortr-t1to."
"Powe hrate?" save Peetre "the momory of these famine dar- upon tha' (ireat Iere remamed oo vividly with him, that
for weoks after our return, though weak and afflicted like ourstres, he might be seen at any time, when not aslecep, hiding away every bit of meat or blubher, and every hone that he coukd find about the place."

Ifew woeks of recuperation fitted the men for the journey home, and relief ship Kite, in charge of ("aptain Bartlett, reedered them in early August.
ln 1896 and 1897, Peary made two summer vovages to the Aretic for the purpose of transferring to the Enited states the barges of the three Cape York meteorites. On the first trip he wat suceesuful in distodging this nine y-ton mass from the iererip) of ernturies, but was eomperied to leave it until the noxt seasom, when he sucerssfully hat it transferred to the hokd of the IHope, the Peary ship of that year, and the workd wonder now reposes in the Naseum of Natural IIstory, New Kork (ity.

During these active years Peary had mate warm friends, mell who had said to him with the sante eonfidenee expreseed Wy Theodore Roosevelt, "l betiewe in yon, Peary", and the Peary Aretie ('lub was formed, heated hy that generous bemefactor, Morris K, Jesup, as President, Prederick La, Iivede Vier-prexikent, Hemry W. (ammon, Treasurer, and Herbert i. Bridgman, soeretary, and others to lome meouragement and fintursial :aid.

Pearyos ambitions had not been satisford by his brilliant arfiowements in twiererossing the (iremband ierecap), and the fuie of the Sretic had long beckoned him to try to reath the morthermast extremity of the earth.
 Satice (luh harl for its main pumpere the attaiment of the
 the I'ole hy the west eonst of (ireonland, and retahlish forex tations, depending upen pieked lakimos for coöperation


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would be sent back as soon as emptied, and the returning explorer, with two companions, would be neet by a relief party of Eskimo:

Mr. Harmsworth of London generously gave his yacht, the Winducard, for this expeclition. Peary started with every prospect of success. The Windward endeavoured to force a passage into Kennedy Channel, but was obliged to seek shelter and winter quarter's at (ape D'Orville. In early autumnal journeys Peary determined the eontinuity of Ellesmere and Crimnell lands, and prepared to make his headquarters at Fort Conger. In January, 1899, came a sudden and most disheartening set-back to his ambitious plans. While on this dangerous sledge journey, in a frightful temperature that ranged between $51^{\circ}$ to $6: 3^{\circ}$ below zero, he had both feet badly frozen, and this grave injury, which nearly rost him his life, resulted in the amputation of eight toes; but not hefore weeks of suffering had heen passed in the melancholy winter clarkness at Greely's olel quarter's.
"During the following weeks," writes Peary, "our life at Conger was pronouncedly à lu Robinson Crusoe. Searehing for things in the unbroken darkness of the 'Creat Night,' with a tiny flicker of flame in a saucer, was very like secking a needle in a haystack." It last, on the 1Sth of February, in the moonlight, they started back to the ship. Lashed firmly down, with feet and legs wrapped in muskox skin, Poary was dragered, in the cold Aretic night, a distance of two lundred and fifty miles in rlewen days.

Disheartening weeks of inaction ansl suffering ahoard the Whinduard, hut partially restored his health; nevertheless, it April, while still on arutehes, he was dragged on sledges to Fort Conger. This season was pased in scientifie work atul map making. White (rosing Ellemere Latnel ieroeap in July, at an olevation of seven thousand feet, Peary discovered Camon Bay.
()ther results of his indefatigable embertome were the collectine ai rethes of the Lady Franklin Bay experdition, which

 premented to the Lords of the Admiralty of (ireat Britain, and platerd in the Muserom of the Rosal Naval Colloge at (irecnwich.

Each seavon a resel was rent to (ireentand to carry him -rapmbios, and hring back letters. small jourties of sementiots. miversity students, and homers towk adrantage of thes
 calleal for on the resed 's return.
 surver. Dr. Lopold Kann of (orncll, and Mr. samuel Warm-
 for exploration- in Ellesmere Land.
 -tato. keaving Peary in Stah, where le pernamerk matil the
 fran there made his hombern dath in an attomp) to reath the











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ary, 1902 , and reacherl, April $21,84^{\circ} 17^{\prime} \mathrm{N}$., but again he was foreed back, after risking his own life and that of his companions over the worst ice he had exer encountered. Momentarily discouraged, he wrote at this time: "The game is off. My dream of sisteen vears is ended. I have made the best fight I knew. I believe it has been a gookl one. But I cannot accomplish the impossible."

Sfter four years of stremous endeavour in the face of the most disheartening failure, Peary fame hack to the Vnited Statos, took courage once more, renewerl the lowing fight, and phaned his seventh voyage into the Aretie.

Under the auspiees of the Peary . Aretie ('luh), a model ship Wat huilt for the sole purpose of ascisting Peary in aceomphishing the work upon which he hatl set his heart, latished hifs fortume, and staked the eonfiklenee of his frients. The result was the huilding of the Roosecelt, the most modern of ierefighters. The plans for the Rooserelt allowed a length of onse humdred and eighty-four hy thirty-five feet heam and sixteren fert draft, loaderl. She wat provided with enginew (ap)able of deseloping one thonsant herse-power' : she satried a light three-masted sthoonor rig. Her hull wat especially designed to resist the terrifie preseure of the iere-floes, and of such shape to lift easily from the treacherous ioe cradles in which the wate expected to test her rexistinge qualitios. In this cplombld craft. Peary started north in 190.): and bokdyy plougherl the leweserelt farther than any vesw bave yet perene



 mosed whiphont. Ekimo asistance, well-laill wehes, and Praty himaif math of the emernal vigore, whelh, in wite of
 wi routh.
()n-arros the interminathe ohetathe - on - past one degree and then anothere, with the exer preernt problene of cobld, -torn, rough ices, and dimmi-hing food, until finally the forees of mather haffled once again the forese of humben -trength. At So $^{-2} 6^{\prime}$, the mempromi-ine wice of the North "rivisunt. "This fitr shatt thon "onne and no farther." Back
 orer thin and treachorous ice, atern- the hig leat where thin, undukatins-urface some two miles in whith, harely supported the weight of at man, in his frantie race with death.

Batek entef more to the sontlo. Batflond once more in his
 "becathet the thing he hat - - et himatif to do is a part of hiss bemine." Pewry retumed to the ['nited states. the plans of his mohth ant final journog ahrom! maturing in his mint.

The Romereft wat doekel for the purpone of repairs.






















 fith the 入outt Pa,

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companion for months. Peary now hurried his final preparations, and. rejoicing in his good fortune, steamed out of New lork hathour, July $6,190 \mathrm{~s}$, in the galkant Ronsecelt, with her pernant- flying bravely to the breeze. Peary, now grown ohd in Aretie serviee, sailed to the Great White North, this time to reach his goal.




## (`HAPTER XXIJ



 of Dr. ('ock to produce his datat Acetp)tance of Pearys (hame he the American Geographical suciety Ins. (onk finally. and mannaript to (opmbagen. Viertiot. Prior clam to the discoregry of the North Pole - Not provern.

Tife announcement in the Ven Yowli $I$ erath on september 1. 1909. of the rli-coverg of the North Pole be I) r. Froterick A. (aok, of Brooklyo. New lork, atomended the eivilized
 with Arotic entemprioc. hat to the majonity of the public his hathe wat - otrather.


 homm. latving (wok with at fair supply of pmovianh- ath
 !ammerfrathekt.






 1.11
objects of Commander Peary"s expedition of 1908 was "The hemef and Reseur of Dr. Frederick A. Cook." The hig *npply station at Etah was, in fact, e-tablished hy him mainly for the benofit of Dr. Cook. When the Rooserelt and Erit: arived at Annooktok on August $\overline{7}, 1908$, Francke was found in a pitiable condition, and he begged to be sent "home." He Wat returned in the Eriki (commanded by゙ ('aptain Bartlett), and from st. John's, Sewfoundland, sent out the news that Cook had probahly perished on his way to the Pote.

This annomeement aroused so much interest that early in Augu-t, 1909, at relief ship left St. John's for the purpose of *rarching for Dr. Cook and for carrving provisions to Peary. News tratels slowty "north of $33, "$ and meanwhile (ook had retumach.

In Ipril. 1909, a white man and two E-kimos appeared at therebief sation at Annooktok, thestation immertiately north of Etah. The three were utterly fatigned and were mate as comfortable as posible be the men whom (ommander Peary had keft behind. A few days later (ook loft Amooktok fors south Cirentand, whence he took steamer fon' (opentagen.

Dopathes from the shethand I-hamb, the last of Angust. 190, proctaimed that Dr. Cook had reached the Pole in April, 190s. ('onk declared his route to have been hes smith
 End, thener hy (ape Thomat Huhbard, which he loft in March, 1908. tothe Pole, four hunded and wixtrmiles distant, Which hereame to have retwhed on April 21. 19e(s.

The faniliar story of his wolcome at (iquentateren neede not to be retuld here. Meanwhite came a despatele to the lew


I hate the Pole, April 6. Expeet arrive ('latean Pay, Aphtember $\overline{6}$. Fermerentrol wire for me there and armane (x) madite trathemis-iont hig -tory.
"PBari."

It Batthe Harbor. C'mmander Peary learned of Cook's cham to havereached the Pote. But Peary hat carried northward a numhor of Exkimos, with their wiece and children. and these he harl kel safely back agian to Etah. IFowerer, the (ireenland winter wats apporoaching, and he lingered at Etah, organizing a walrus hunt which supplied his faithful company with food for the coming year. Not till this provirion was mate did he set his face toward the United stater.

A hadow of douln, hardly higerer than a man's hand. whirh Was cast hy a part of the scientifie worlt at the Doctor's first amomerment, son wrew into what evontablly proved to be a cloudhan-t. No controversi in the history of modern times hat ceused more general excitement. som the two principal were pursuing their separato activitios moder very dissimilar conditions. Dr. ('onk wat lenturing in the Enited
 ing his daim- promising proofs of his asertions. Peary preforred to present his own rlamis to the dis-overy of the Pobe in terae langhage the finst ambencement published in the Verl Yorli Times recting: -













record Narch 24; encountered open lead March 26; crossed Sith parallel March 27 ; passed American record March 28; encomtered open lead March 28; held up by open water March 29 ; crossed 88th parallel April 2; crossed S9th parallel April 4; North Pole April 6 All returning left North Pole April 7; reached Cape Columbia April 23; arriving on board Roosevelt April 27. The Roosevelt koft Cape Wheridan July 18 ; passed Cape Sabine August 8; left Cape Iork August 26 ; arrived at Indian Harbor with all members of the expedition returning in good health, execpt Professor Ross (i. Marvin, unfortunately drowned April 10, when forty-five miles north of Cape Columbia, returning from $86^{\circ}$ north latitude in command of the supporting party. "Pobert E. Peary."

Immediately upon his return to the United States, Peary joined his family at their summer home in Maine, offering to submit his proofs at once to any competent body. The National Geographic Society accepting the offer, pronotmeed favourably upon his claims. In the meantine, he took no active part in the trend of affairs, but waited quietly for the dust to settle.

In Noyember, Dr. Cook cancelled his lecture engagements, and settled down to preparing the long-delayed proofs to he submitted as promised to the University of Copenhagen. This acoomplished, he despatehed a typewritten copy to the University of Copenhagen, Denmark. Ifter careful deliberation, the University of Copenhagen rendered its verdict to the workl, which, smmmarized in two short words, keft the clam of Dr. Frederick $A$. Cook to the discovery of the North Pole, April 21, 1908, Not Proven.



## CONCLUSION

For three and twenty years Robert Edwin Peary has knocked valiantly at the portals of Immortal Fame - that Castle Nowhere - whose glistening walls of eternal ice lie shimmering in the brilliant sun; whose jewelled towers and minarets catch the glint of sparking rainbows.

The Gates at last have opened and the banquet hall is set. Wikd Aretic melodies fall grandly upon the ear. The cannonade of glaciers thunders a salute. About the festive board stand the heroes of the past, according to their precedence and rank.

Hail! ye Iva Bardsen! Hail! ye early Norsemen and ye Danes! There stand the Cabots, John the father, Sobastian the bold son. There Sir Willoughby and Chancellor; and old Sir Humphrey Gilbert and a host of others. There Barentz, there Behring, - there Henry IIudson and old Baffin. Three hearty cheers for Von 11 rangell, Ross and Parry and brave old Sir John Franklin! Crozier and his men line at attention and salute!

Ah! Elisha Kane, the beauty of a noble soul lies written in a gentle face. Francis Hall, thou dreamer, stand forth and weleome the arriving guest. Crerman, Austrian, NorWegian and Italian, stand thou behind the board, lift high the diamond ehalice and quaff the limpid draft in honour of the liero, for he comes.

In one voice, down the ages goes the cry, "All praise to him who conquers!'" and Peary, entering, bows, and takes his seat.

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## EXPLANATION OF TEPMS

Bay-ice, or young ice, is that which is newly formed on the sea, and consists of two kinds, common bar-ice and pancake ice; the former occurring in smooth, extensive sheets, and the latter in small, cireular pieces, with raised edges.

Beset the situation of a ship when closely surrounded by ice.
A bight is a bay in the outline of the ice.
Blink. A peculiar brightness of the atmosphere, often assuming an archlike form, which is generally perceptible over ice or land corerel with snow. The blink of land, as well as that over lorge quantities of ice, is usually of a yellowish cast.

Bore. The operation of "boring" through loose ice consists in entering it undor a press of sail, and forcing the ship through by sequating the masses.

Brash-ice is still smaller than drift-ice, and may be considered as the wreck of other kinds of ice.

Cache. Literally a hiding-place. The places of deposit of provisions in Aretic travel are so called.

I calf is a portion of ice which has been depresed by the same means as a hummock is elevated. It is kept down by some larerer nates, from bemeath which it shows itwelf on one side.

Drift-ice consists of pieces less than floes, of various shapes and macnituld .

Field-ice, or a field of ice. "is a sheret of ire so extensive that its limits cannot be diserrued from the mathead of the ship. "

Fiord. In abrupt opening in the eoast line, arbmitting the sea.
I floe is similar to a fickd. hut smaller. inamuch as itse extent can 1), *irn.

Glacier. I mase of iee derived from the atmo-phere sometimes ahutting on the seat

Heavy and light are terms attachod to ice. distingui-hahle of its thakerss.

the common lewal. It is frequently produced by pressure, where one piece i- -queerent upon anothers, oitern ret upon ite edge, and in that position eememed by the front. Hammock are likemise fornod bs pieces of ice mutually ornohing earh othore the wreck being heaped upon one or both of them. To hummocks, principatls, the ice is imateted for its rarioty of ianciful shape athe its photarerpe appearance. They occor in great manlow- in heaye
 ifores. Where they often attain the height of thirty feet and upward.

Ice-belt. I continuen margin of ice. which, int himh northern


Iceberg. I harg mas of solid ice grnematly of ereat height, hemedi.h. and thicknow.

Ice-foot. Ifer attachent to the land, aither in floes or in heary grentrend mat- lying near the -hore.

Ice-hook. I-math ice-anchor.
I lane or vein is a harrow channcl of water in pratk or outher collowtion of icer.

I lead i- an meninge harge on math, thmoth the iere in whinh a



Nipped. The sithation of a ship whan forcihly prown lis ioce on hoth-ide-

Open-ice, (1) sailing-ice. Where the fin aran - - (f)arated at to














Slugde consists of a stratum of detached ice (rystals, or of snow, or of the smaller fragments of hrash-ice, floativer on the surface of the seat.

I stream is an ohdong collection of drift or bay-iere, the pieces of which are continuons. It is called at set-stream when it is exposed on one side to the ocean, and atfords shelter from the sea to whaterer is within it.

Land-ice consists of drift-ice attarhed to the shore; or drift-ice which, by being covered with mud or grasel, appears to have refently heren in contact with the shore; or the flat ice resting on the land, not having the appearance or eleration of icelergs.

Tide-hole. A well sumk in the ice for the purpose of observing tides.

I tongue is a point of ice projecting nearty horizontally from a part that is under water. Ships have sometimes run aground upon tongues of iece.

Tracking. Towing along a margin of ice.
Water-sky. I dark appearance in the sky, indicating " clear water " in that direction, and forming a striking contrast with the " blink " over land or ice.

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